

# MANUFACTURERS' RECORD

A  
WEEKLY SOUTHERN INDUSTRIAL  
RAILROAD AND FINANCIAL NEWSPAPER.

IN THIS NUMBER —

*Bonded Cotton Warehouses*

*as a Financial Relief*

*for the South.*

VOL. XXXIII  
No. 6.

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Baltimore, March 4, 1898.

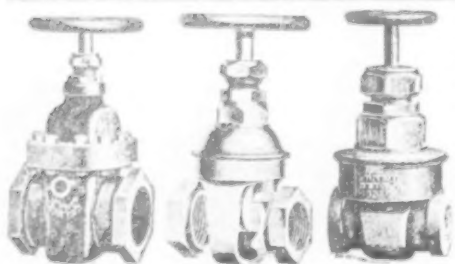
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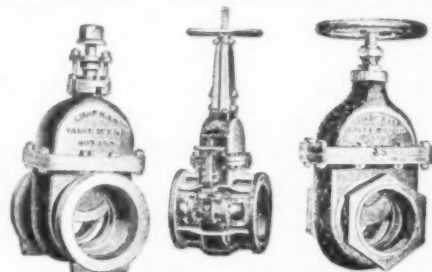
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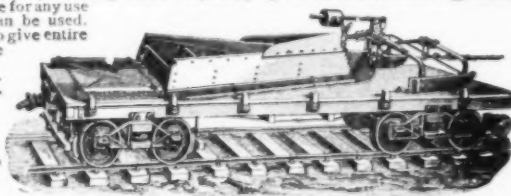
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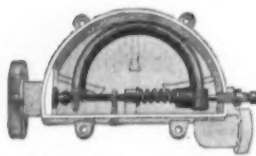


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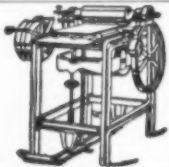


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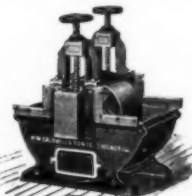


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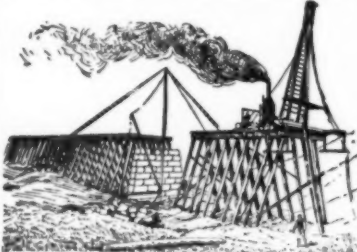
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Harrington & King Perf. Co., Chicago, Ill.
- Screen Plates.**  
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Hendrick Mfg. Co., Ltd., Carbondale, Pa.  
Harrington & King Perf. Co., Chicago, Ill.  
Mundt & Sons, New York, N. Y.
- Screws.** (Machine and Wood.)  
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Philadelphia Mch. Screw Wks., Phila., Pa.
- Screws.** (Set, Cap and Special.)  
Franklin S. Miles, Philadelphia, Pa.
- Scroll Saws.** [See Woodworking Machinery.]  
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H. L. Beach, Montrose, Pa.  
W. F. & John Barnes Co., Rockford, Ill.  
J. A. Fay & Co., The Egan Co., Cincinnati, O.
- Separator.** (Steam and Grease.)  
The Austin Separator Co., Detroit, Mich.
- Shafting.** [See Pulleys.]
- Sheet Metal Working Machinery.**  
West Manufacturing Co., Buffalo, N. Y.  
Toledo Machine & Tool Co., Toledo, O.  
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J. M. Robinson & Co., Cincinnati, O.  
Niagara Stamp & Tool Wks., Buffalo, N. Y.  
S. C. Forsyth Mch. Co., Manchester, N. H.
- Shingle, Lath and Stave Machinery.** [See Woodworking Machinery.]  
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E. & B. Holmes Mch. Co., Buffalo, N. Y.  
Trevor Mfg. Co., Lockport, N. Y.  
S. C. Forsyth Mch. Co., Manchester, N. H.
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Newport News Shipbuilding & Dry Dock Co., Newport News, Va.
- Shoes and Dies.**  
Chrome Steel Works, Brooklyn, N. Y.
- Skylights.**  
Pittsburg Plate Glass Co., Pittsburg, Pa.
- Slate.** (Roofing and Blackboard.)  
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Williams & Schmid, Granville, N. Y.
- Slatington-Bangor Slate Syndicate, Slatington, Pa.**  
David McKenna, Slatington, Pa.
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H. Wm. Dopp & Son, Buffalo, N. Y.
- Solder.**  
Theo. Heirtz & Son, St. Louis, Mo.
- Speaking Tubes.**  
Chas. H. Besly & Co., Chicago, Ill.
- Spelter.**  
Theo. Heirtz & Son, St. Louis, Mo.
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The Cleveland Wire Spring Co., Cleveland, O.  
Hansell Spring Co., Newark, N. J.  
Chas. H. Besly & Co., Chicago, Ill.  
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Apollo Iron & Steel Co., Pittsburg, Pa.  
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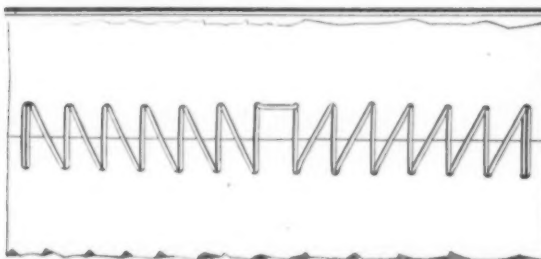
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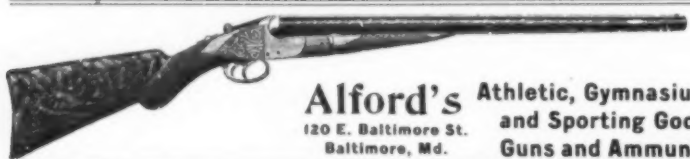
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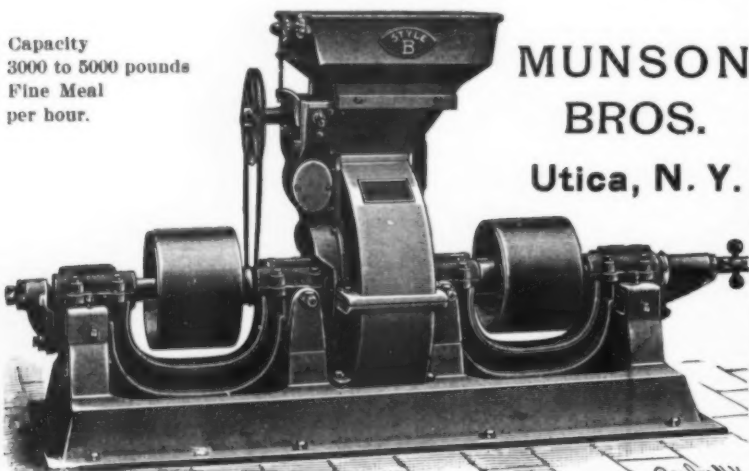
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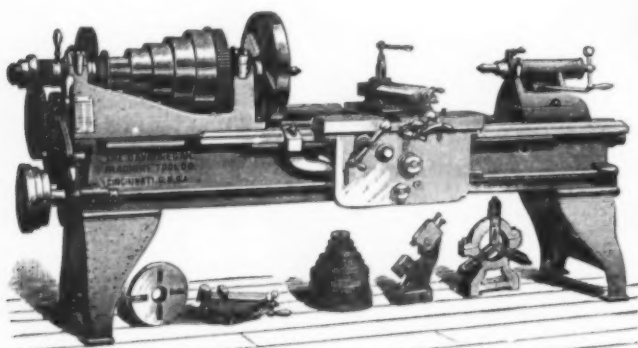
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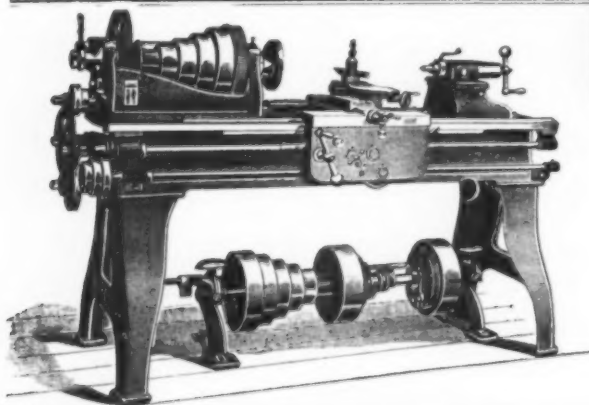
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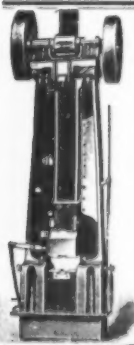


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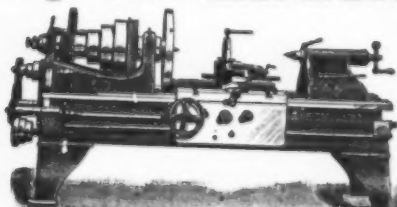
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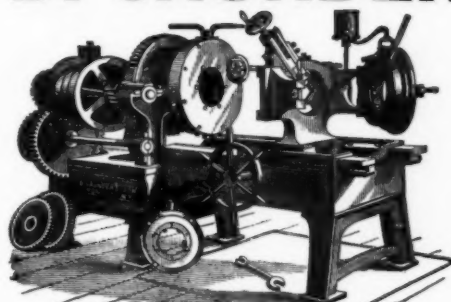


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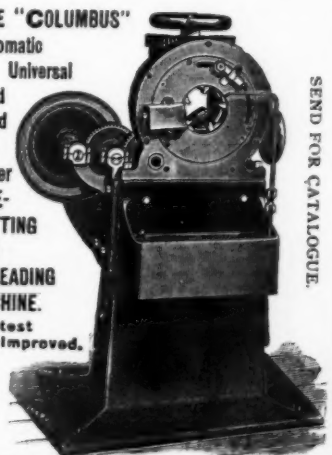
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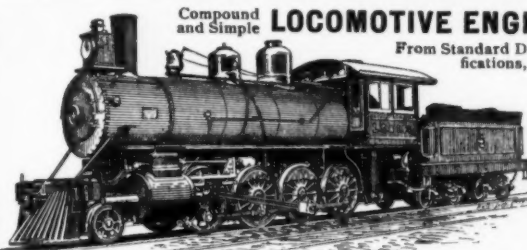
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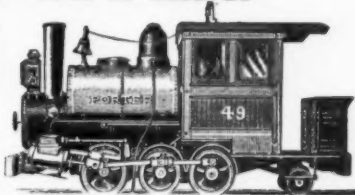
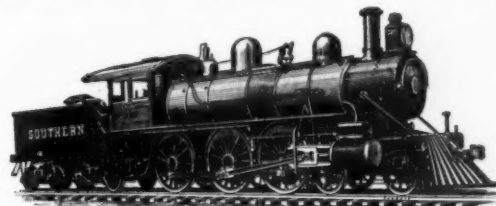
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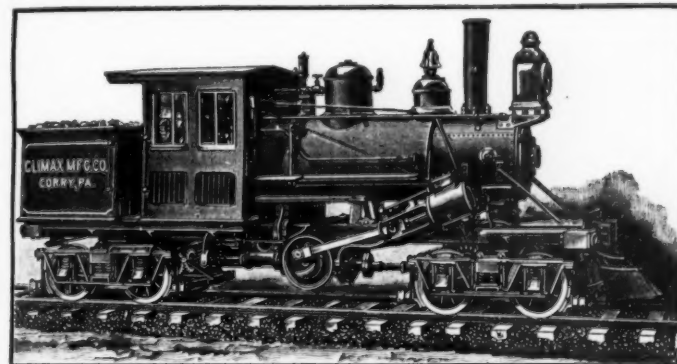
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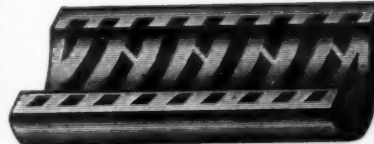
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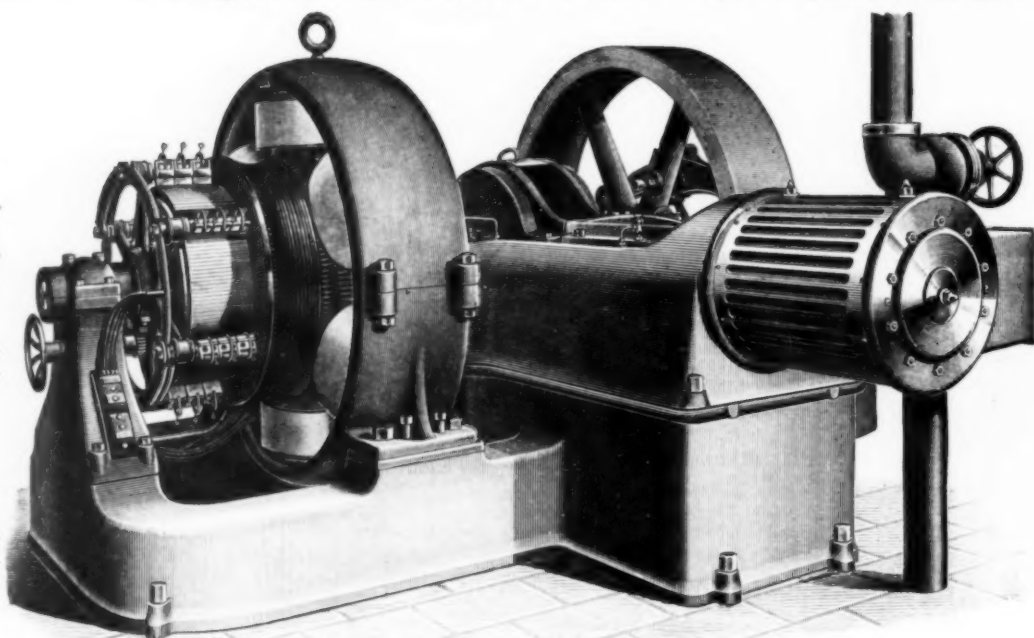
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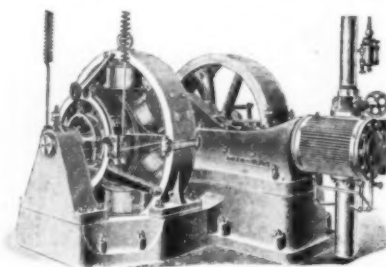


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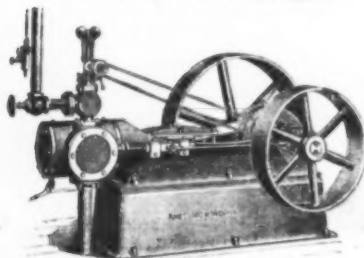
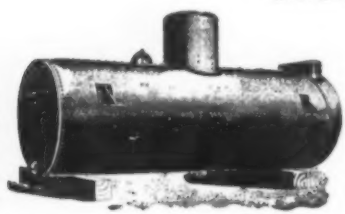
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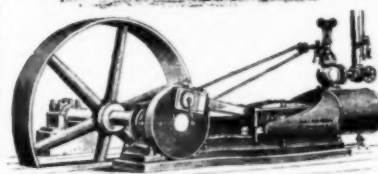
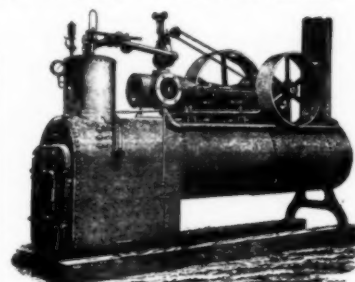
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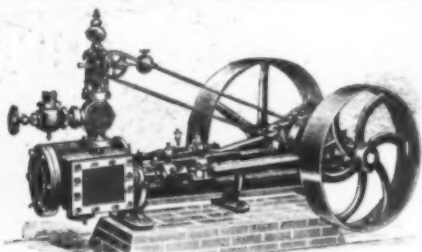
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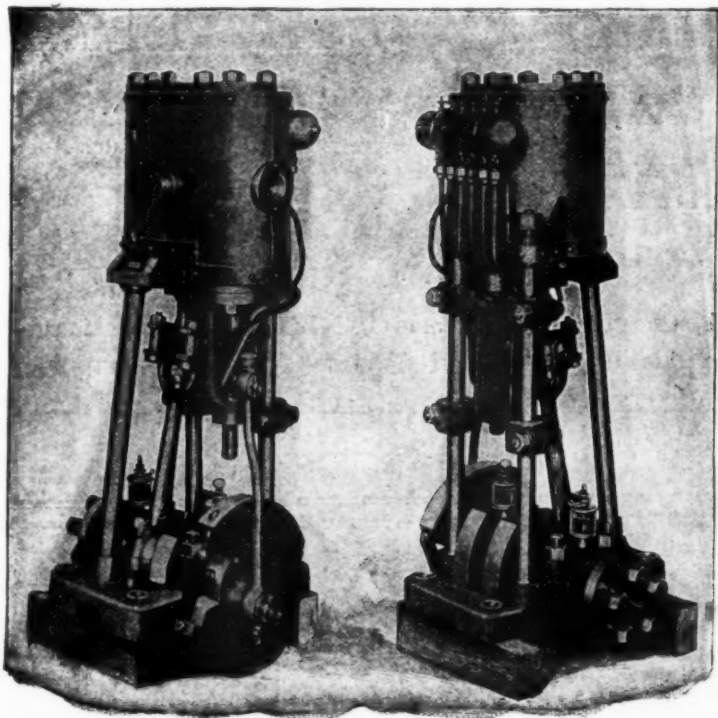
40 to 1000 Horse-Power Made—Condensing, Non-Condensing and Compound.

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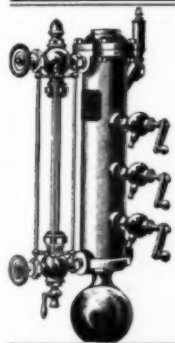


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Two blocks from 14th St. Ferry.

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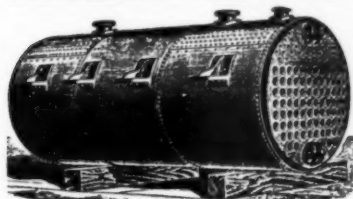
These appliances do NOT keep the feed pump running, but they do keep the fireman at his post and make him careful.

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No matter what the conditions, if your exhaust steam makes too much dirt or too much noise, a Common Sense Exhaust Head will stop the trouble. It will stop all dirt and all noise. The Common Sense has been tried and kept where other exhaust heads have been tried and rejected. Ask us to show you a batch of letters from satisfied customers, or better still, try one free. If the

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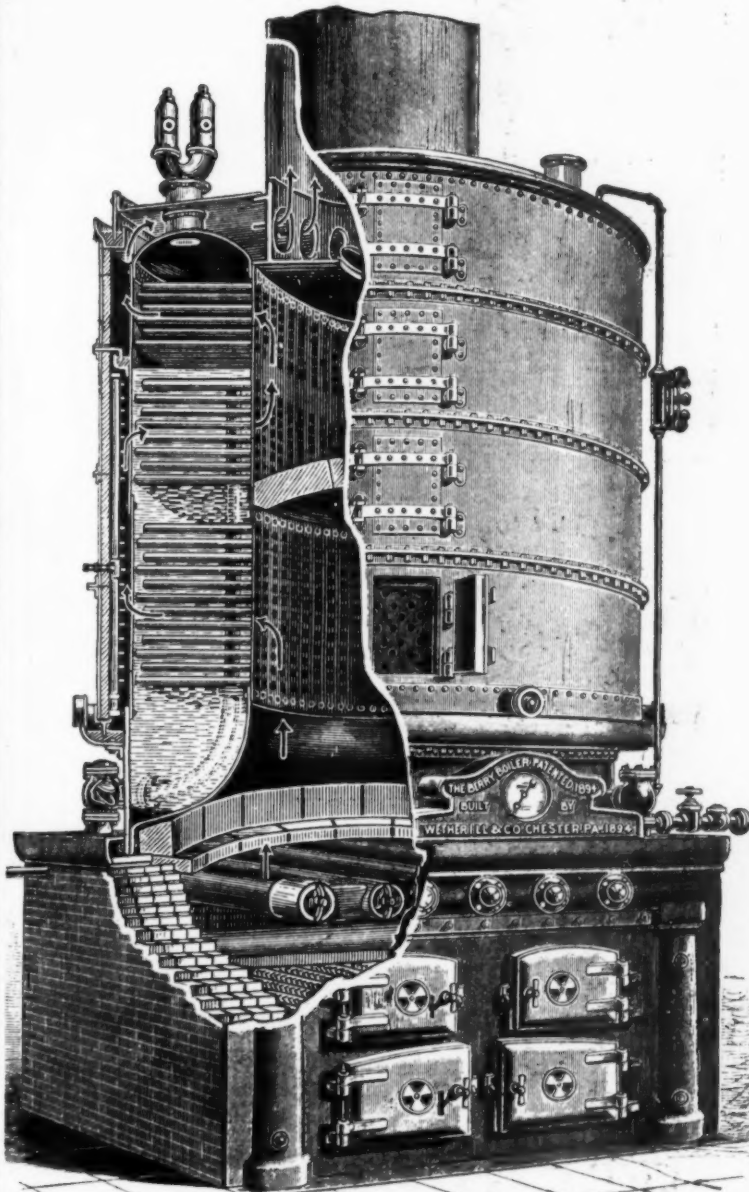
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## Berry Safety Boiler

Patents 519,015 - 542,674.



Economizes space, fuel, maintenance and first cost to a greater degree than any other boiler.

### COMBINES SIMPLICITY and DURABILITY

Horse-Power Units of 250, 200, 150, 100 and 50.

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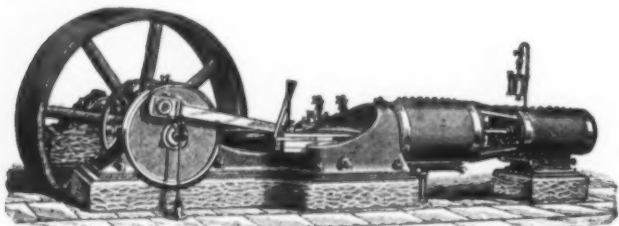


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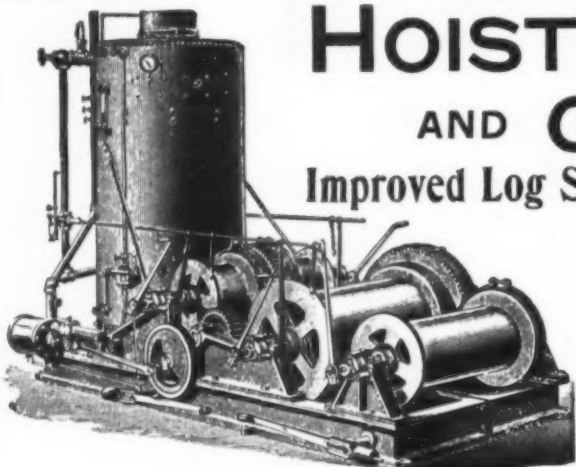


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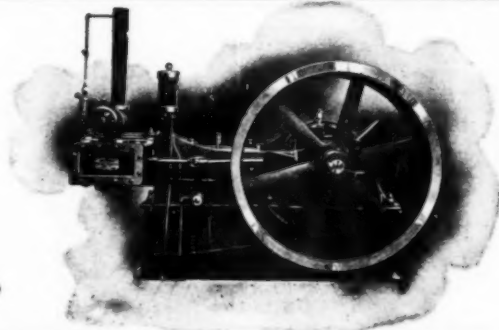
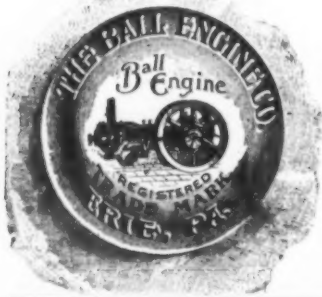
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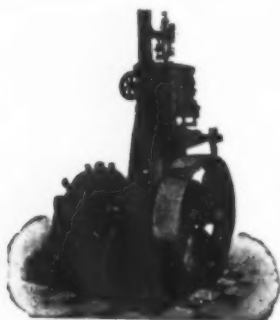
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For Electric Light, Railway and Factory use.

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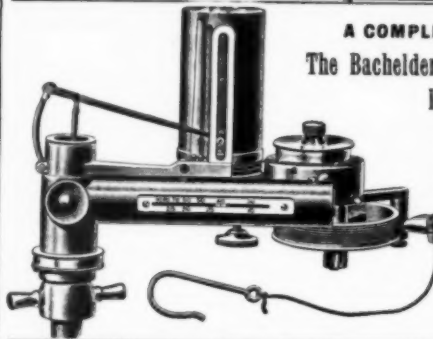
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From 3 Horse-Power Upward.

AFFORDING BEST POWER FOR LEAST MONEY.

Send for Pamphlet and state your wants to

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A COMPLETE OUTFIT FOR INDICATING.

The Bachelder Adjustable Spring Indicator and  
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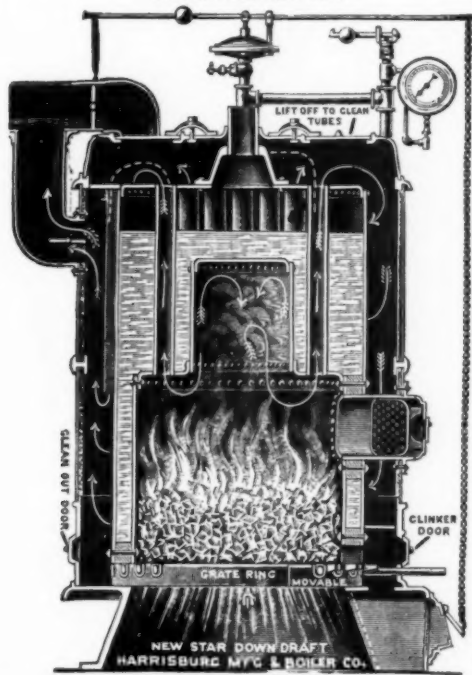
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# NEW STAR DOWN DRAFT BOILER

THE NEW STAR  
DOWN-DRAFT STEAM BOILER

Built of Steel, 60,000 T. S.



Heat travels three times the length of the Boiler.  
Capacity, from 235 to 1,600 square feet direct steam radiation.

for STEAM and HOT WATER.

Sizes for Steam 235 to 1600.  
for Hot Water 410 to 2400 square feet direct radiating surface.

## OPERATION.

Boiler is operated either straight or down draft, simply by opening and closing dampers in connections.

Efficiency tubes being of charcoal iron and shell of soft steel or iron, heat is transmitted quicker to the water than if the material was cast iron.

Economy is obtained by keeping heat and gases in contact with water surface for the distance of three times the length of boiler.

Fire Box is large and deep enough to carry fire and give heat for hours without attention.

Grates are of improved shaking and dumping pattern. All effective surface; clean perfectly around fire box of boiler. Slicing bar can be used through opening in front of boiler.

Cleaning heating surface is rarely necessary, owing to its position. Covers are provided in dome to pass brush through tubes. All soot, etc., dropping into space between casing and boiler, can be removed through doors in section around base.

We wish every Plumber and Steam Fitter to apply  
for a copy of our Catalogue; it will prove interesting.

**HARRISBURG MFG. & BOILER CO.**

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## The Life of an Engine

is Long or Short, according to the care bestowed upon its vital parts.



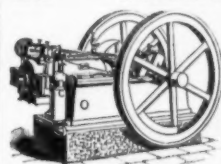
## THE DETROIT SIGHT FEED LUBRICATORS

protect these vital parts by keeping them perfectly lubricated, thus preventing wear from friction. Nearly 400,000 Detroit Lubricators are in use.

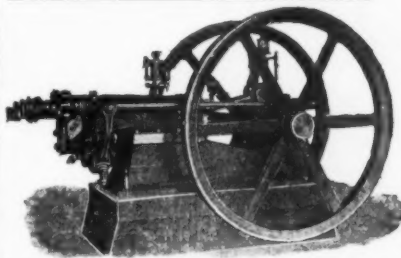
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DETROIT LUBRICATOR CO., Detroit, Mich.

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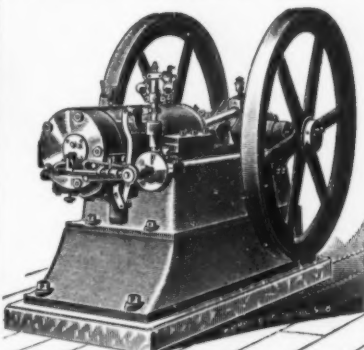


Using Natural Gas, Coal Gas Producer Gas and Gasoline direct from the tank, 1 to 40 H. P. Interesting Catalogue.  
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**The MIAMI,** Uses any kind of Gas or Gasoline.  
Send for Circular. Correspondence solicited.  
**THE MIDDLETOWN MACHINE CO.,** Middletown, Ohio, U. S. A.

## The BROWN GAS and GASOLINE ENGINE.

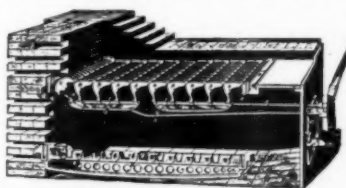


Uses Gas or Gasoline. Makes no compression while engine is running idle. Charges fired with electric spark. Made upon honor and fully guaranteed. Write for description and prices.

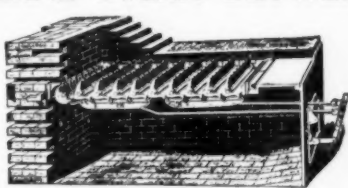
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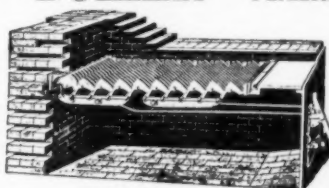
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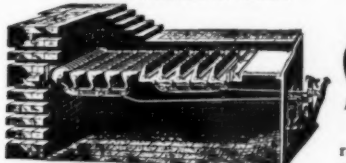
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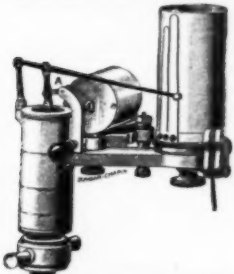


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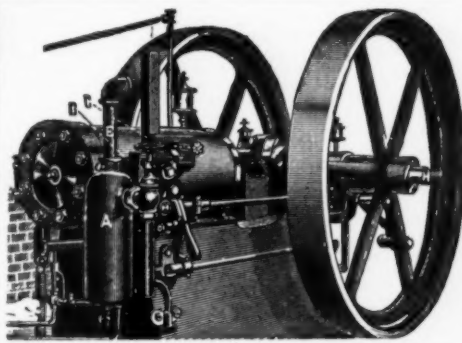
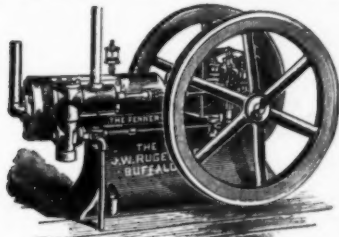
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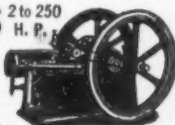
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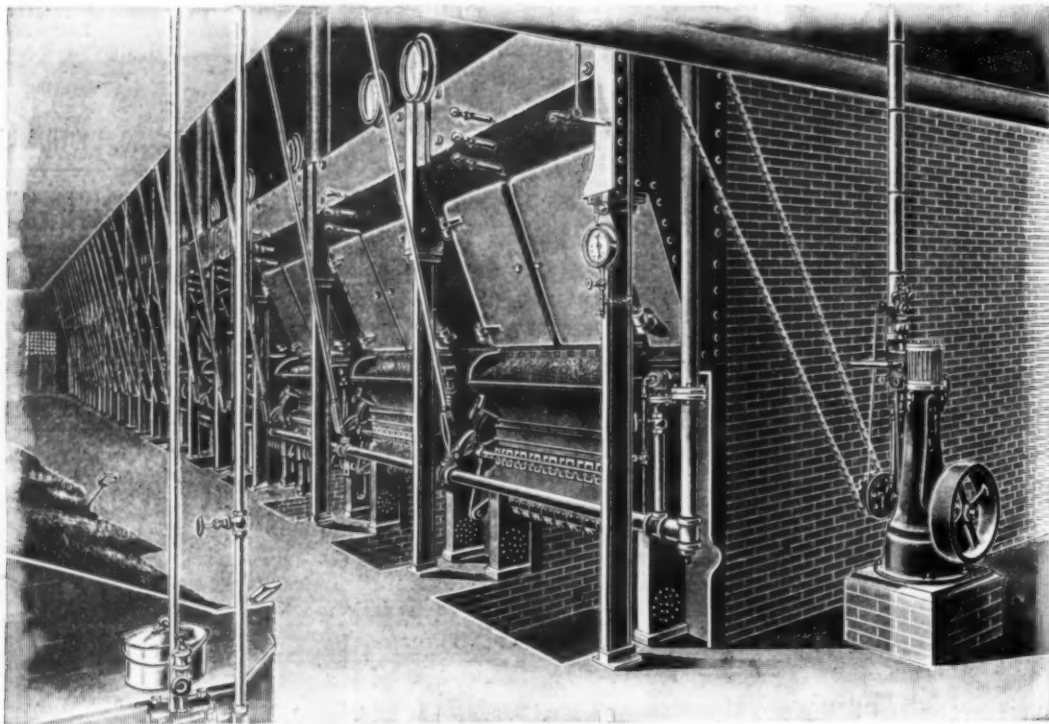
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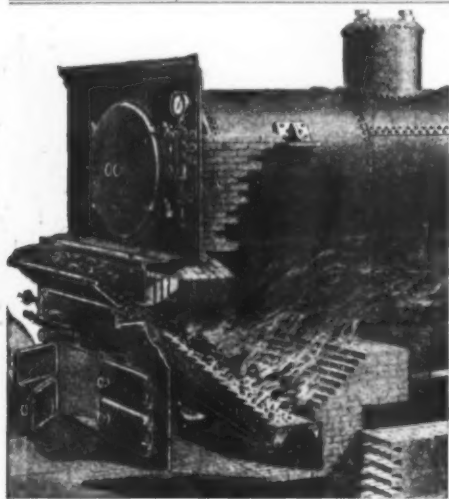
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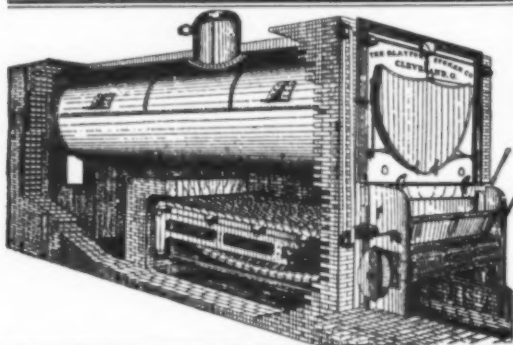
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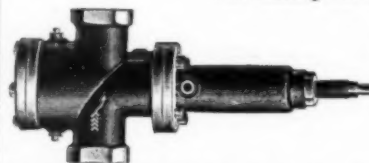
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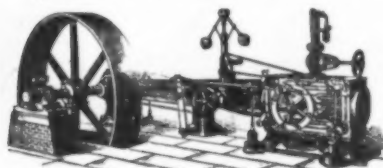


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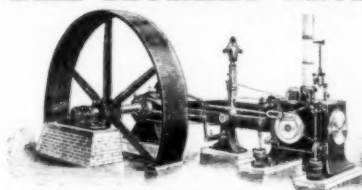
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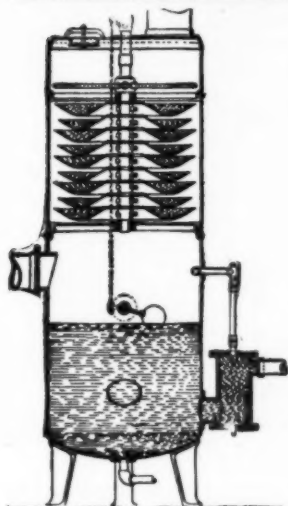
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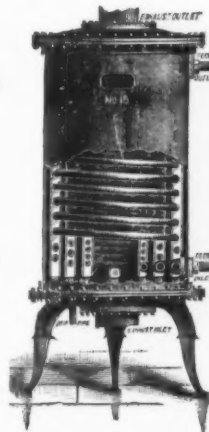
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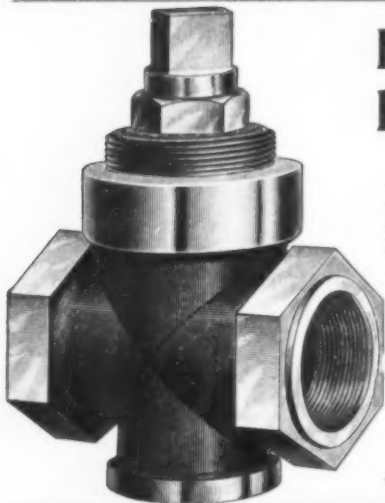
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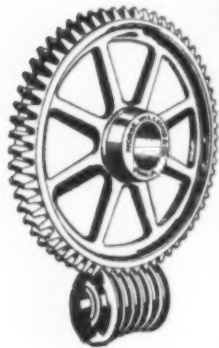


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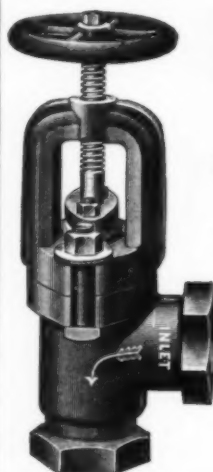
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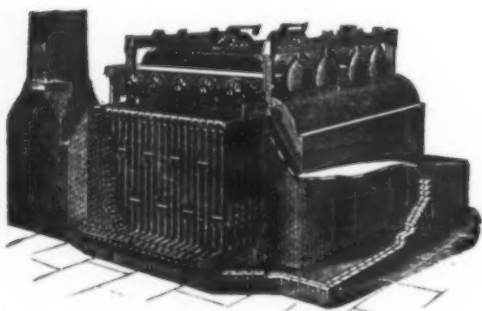
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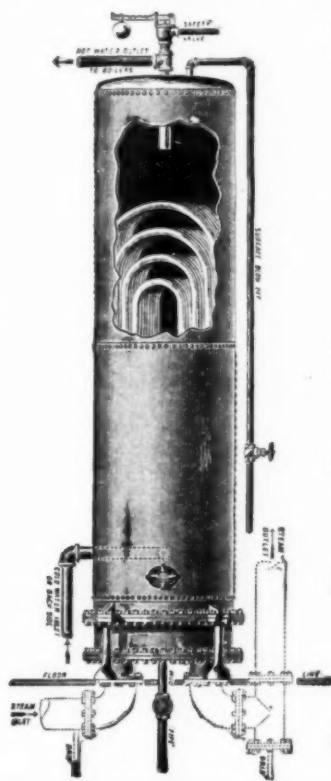
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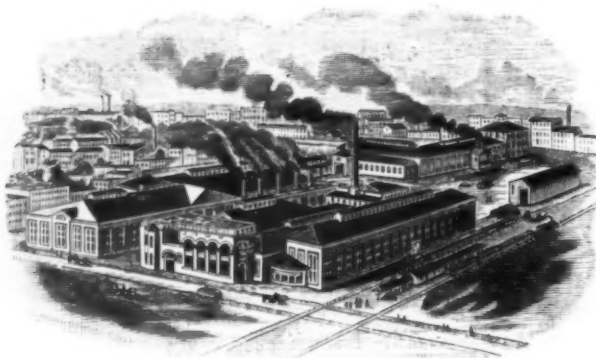


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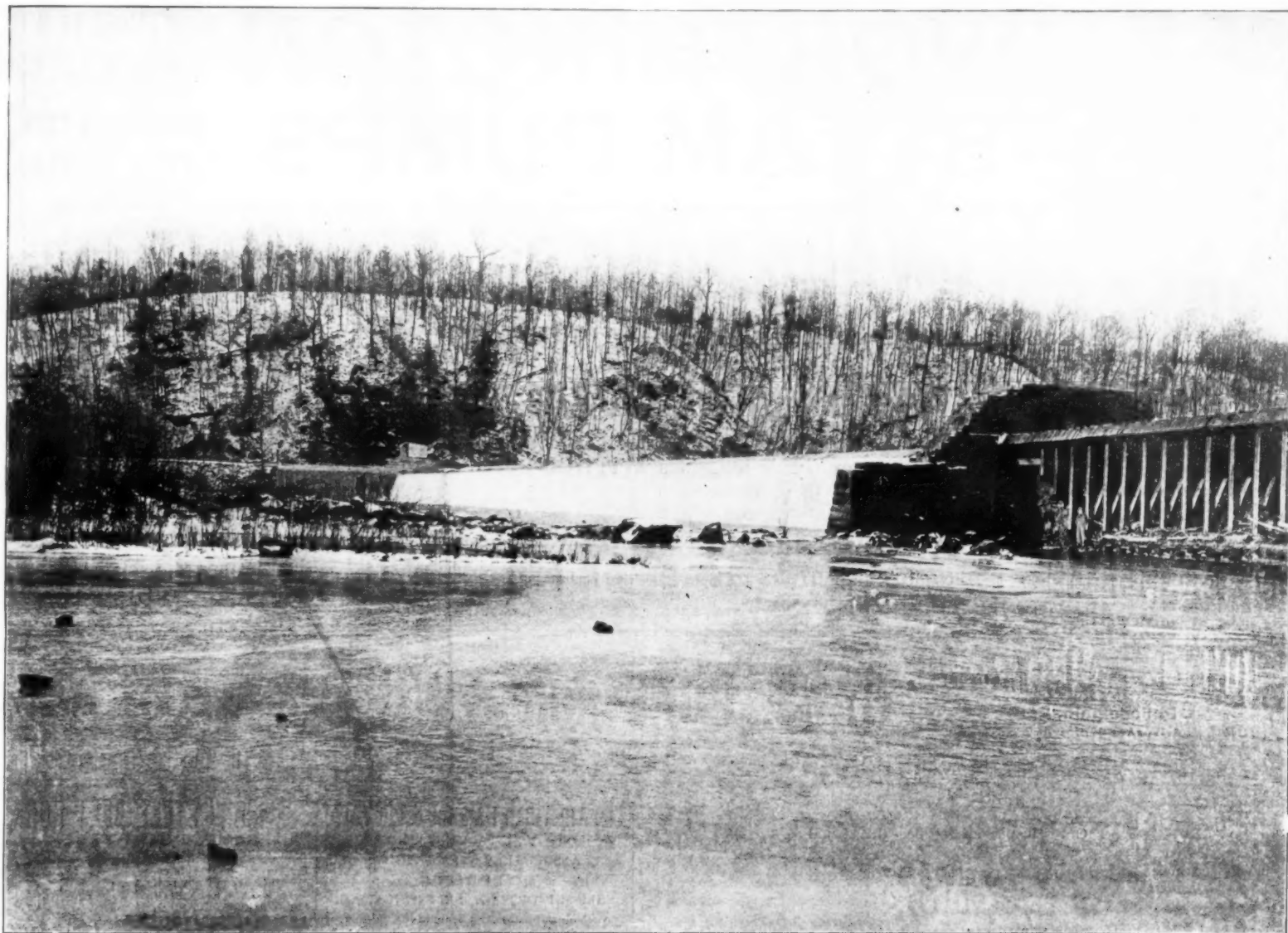
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Bagging factories.....	1	135	100,000	150,000
Barrel factories.....	1	125	275,000	150,000
Basket and willow.....	2	13	10,000	25,000
Ware factories.....	1	240	75,000	125,000
Breweries.....	1	100	167,000	300,000
Broom factories.....	1	10	2,000	6,000
Candy factories.....	1	60	100,000	35,000
Carriage and wagon wks.....	6	100	15,000	35,000
Cider and vinegar.....	3	15	15,000	35,000
Cigar factories.....	9	100	60,000	202,000
Cotton factories.....	1	645	600,000	700,000
Cotton ties etc.....	4	15	10,000	30,000
Cotton and wool pick'g.....	1	20	10,000	25,000
Food and drug factory.....	1	33	30,000	75,000
Fertilizer works.....	12	1,600	5,250,000	4,265,000
Flour and grist mills.....	8	275	150,000	100,000
Foundries and iron wks.....	3	200	250,000	100,000
Ice factories.....	3	25	75,000	100,000
Job printing and bookbinding.....	8	180	325,000	450,000
Knitting factories.....	1	90	24,000	40,000
Leather goods.....	1	10	40,000	130,000
Marble and granite wks.....	5	60	40,000	75,000
Mattress factories.....	2	35	60,000	30,000
Men's clothing.....	11	90	20,000	125,000
Oil refineries.....	5	170	75,000	150,000
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Saw and mill factories.....	2	300	350,000	850,000
Sash and blind.....	5	70	25,000	75,000
Saw and lumber mills.....	3	70	25,000	100,000
Shoe and boot yards.....	3	45	75,000	100,000
Shoe factories.....	1	15	25,000	60,000
Soap and candle factory.....	22	150	70,000	60,000
Soda water, etc.....	3	150	100,000	175,000
Underwear factories.....	3	150	100,000	175,000
Totals.....	190	5,617	\$9,600,000	\$14,418,000

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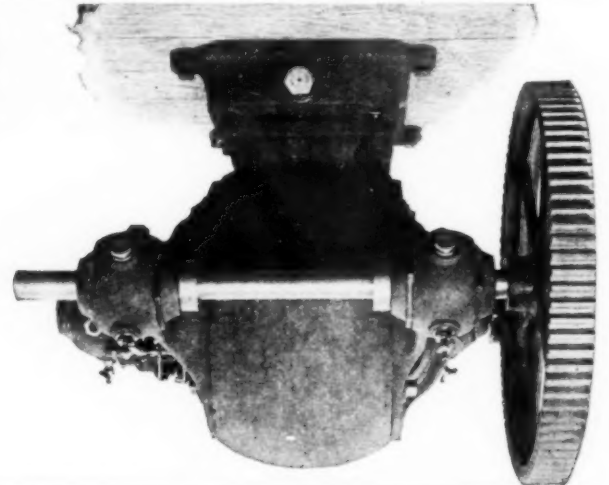
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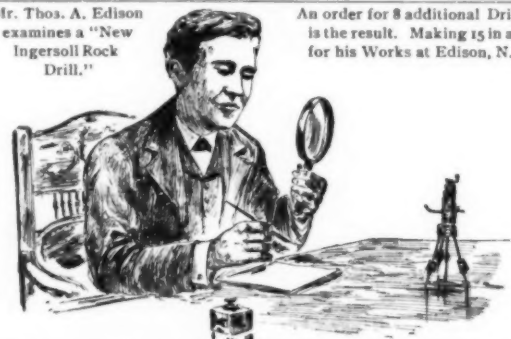
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# MANUFACTURERS' RECORD.

A WEEKLY SOUTHERN INDUSTRIAL, RAILROAD AND FINANCIAL NEWSPAPER.

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WEEKLY.

BALTIMORE, MARCH 4, 1898.

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BALTIMORE, MARCH 4, 1898.

### An Error Corrected.

In last week's issue of the Manufacturers' Record the name of C. R. Makepeace was inadvertently used with a letter which should have been signed Charles A. M. Praray, who is connected with the firm of C. R. Makepeace & Co., but who wrote in his individual capacity and not for the firm.

### A Hint for the South.

A dispatch from New York states that the Merchants' Association of that city has arranged for opening up to New York the trade of the State of Texas and other territory in the extreme South and Southwest with the Mallory Line, the Cromwell Line and the Southern Pacific Railroad Co. and connecting lines north into the Indian Territory and south into Mexico and to all the principal Gulf ports in Texas. Here is a note of warning for men interested in the trade at the Gulf and South Atlantic ports. If New York merchants can afford to seek the trade of the far Southwest, Southern merchants ought to see the wisdom of gaining or retaining it. They may do so by the development of the import trade of Southern ports. Buyers will go to the place where they can make the best bargains. If Southern cities do not offer these, other cities will gain the benefit.

### Gratifying Expressions.

One of the most encouraging features of journalistic work is the receipt of letters from readers and advertisers commending the policy pursued by a paper. As a paper goes to thousands of persons, it is not to be expected that it will please everybody all the time. The effort is to meet the wishes of all and to aid all in attaining the best results. This is the aim of the Manufacturers' Record, and it is gratified continually by letters expressing appreciation of it. Among such letters recently received is one from Mr. M. W. Camper, president of the Florence Business League, who writes:

We highly appreciate the work of the

Manufacturers' Record. It has done more to build up and encourage Southern industrial spirit and enterprise, in my opinion, than any other single agency in existence.

Mr. J. M. Abbott, of Seguin, Texas, of the Galveston, Harrisburg & San Antonio Railway Co., writes:

I am very much pleased with your paper, and I believe it is calculated to do more good for the South in the way of development than all the other journals I have seen combined.

### Poor North Carolina.

The sympathy of everybody interested in the development of States of the South will be aroused by the latest blow given to North Carolina, already staggering under influences detrimental to its real interests. The great body of the intelligence of the State feel keenly not only the practical effects of the policy now dominating its politics, but also realize the influence that policy may have upon outsiders who otherwise would help to develop the manifold resources.

Among the agencies of administration in North Carolina is a railroad commission. For months it has been conducting itself in a way not particularly of advantage to the State. Where it was merely a case of factional disputes about spoils sensible people could feel only disgust. But at its last session it aimed a blow at the material interests of the State, which should be met by every legal means available. At one move it passed an order reducing passenger rates on the Seaboard Air Line, the Atlantic Coast Line and the Southern Railway to two and one-half cents first-class and two cents second-class per mile.

This action was taken in the face of absolute proof that a reduction of the existing rates would cripple the railroads. Its foolishness may be better comprehended when it is known that North Carolina has a population of thirty-three to the square mile, and that the only other roads in the country on which the rate of fare is as low as that for first-class on those in North Carolina under the new ruling are those in Rhode Island, which has a population of 354 to the square mile; the main line of the New York Central, in New York, which has a population of 126 to the square mile, and three lines in Massachusetts. There are twenty States having a greater density of population than North Carolina. There are forty-one States and four Territories having higher railroad fares.

The density of population and the relation of the pursuits of the people to railroad travel should be factors in determining the passenger rates on railroads. The North Carolina commission has apparently made the rankiest demagogism the sole basis of rate-making. The result will teach the people of the State the danger of entrusting important duties to men unwilling to heed reasonable statements.

### The Southern Cotton Mills.

For several weeks the Manufacturers' Record has been sent to all the representatives of the New England cotton-mill industry, in addition to its regular subscribers in that part of the country. This is intended to direct more sharply than ever the attention of New England capitalists to the opportunities of the South. But since the attempt in Congress to interfere by federal legislation with the economic revolution marked by the distress in New England textile interests, some Southern mill men have endeavored to show that their advantages over New England have been exaggerated. This inclination to discount at this time the natural advantages of the South is to be expected on the part of some who are enjoying them. It is but the natural instinct of unwillingness to share a good thing, and is akin to the sentiment of a New England investor in a Southern cotton mill, who some time ago advised the editor of the Manufacturers' Record not to make so prominent the advantages of the South for cotton manufacturing, for, said he, "I expect to build a cotton mill in the South (he has since built a large one, costing several hundred thousand dollars), and I want to get some of the cream of the business. If," he added, "you continue to agitate the question and show the South's advantages, so much capital will be drawn into Southern cotton mills as to lessen the profit of individual mills." Such a theory, however, is short-sighted. It is based on an erroneous belief that the existing situation—the inability of buyers to keep pace with production—is to be more than temporary. The Manufacturers' Record believes that it can in no wise better serve the interests of the South than to use its best endeavors to encourage the healthy growth of the textile industry, as well as every other factor contributing to the material prosperity of the South. While thoroughly understanding the argument of objectors, it looks beyond the present for full achievement. It is convinced that "the cream" has only begun to rise at the South; that it will be many years before a profitable skimming will be impossible, even if careful nurture may not absolutely prevent such a predicament. The rapid expansion of cotton-mill building may affect to some extent a few of the older establishments, but the effect will be only temporary, and will be more than compensated for in the enhanced vigor of the South and the prosperity of its people. The natural resources of the South have hardly been touched, in spite of the wonderful industrial and commercial growth in recent years. The Manufacturers' Record desires to see these fully exploited; it believes that the enlargement of the cotton-mill industry will contribute directly and powerfully to that result, and that the cotton manufacturers of the South, as well as the people at large, will see that in the widest expansion of this industry and the consequent general prosperity of the whole South will be found results far more than counterbalancing any small individual disadvantages which a few manufacturers anticipate will come with the increase of this industry.

### Cotton as Collateral.

In another column of the Manufacturers' Record are given the details of a new plan for storing cotton, which seems destined to work incalculable benefit to the South. The plan is the establishment of bonded warehouses for cotton. One has already been established at Charlotte, N. C., and a company is being organized to build another in South Carolina. The legislature of the latter State in 1895 provided for the safe operation of the system in that State. For generations cotton has stood for money with thousands of growers, but it has been money subject to a multitude of shakings and liable to fluctuations in value beyond their control. The remedy for the many evils involved in such a situation has been long sought, but until the present in vain. It seems to have been found in the employment of bonding or surety companies as strengtheners of local warehouse companies. The latter, by being bonded in one of the surety companies, are enabled to issue certificates, or receipts, acceptable as gilt-edged collateral not only in local banks, but in the financial centers of the country. That is the simple theory upon which it is believed a marked change is about to take place in the

South. In the description of the bonded warehouse at Charlotte the details of the transactions with the warehouse of a farmer having a bale of cotton and needing cash are succinctly set forth. They seem to demonstrate that the farmer will be placed in a more independent position in the handling of his cotton than heretofore, and that this system will contribute towards the prevention of real or artificial depressions by the present necessity, which compels farmers to rush their cotton to the market as soon as picked. The farmer bringing a bale to market will be enabled to place it in the warehouse at a moderate cost, secure from the bank the cash with which to meet his debts promptly, and having wiped them out, be in a better position to continue life on a cash basis. The volume of the currency will be enlarged at the same time by perfect and natural process, and local banks will enjoy a greater business. Moreover, Southern cotton mills will be enabled to carry cotton in these bonded warehouses, and the leading financiers of Baltimore, to whom the plan has been presented, state that under such a system it would be possible for the South to get money on its cotton in financial circles at from 4 to 6 per cent., accord



ing to the prevailing rate, as cotton in such warehouses would be regarded as gilt-edged collateral.

Such seems to be the promise of the new system. If the theory is realized, the next move will be the establishment of bonded warehouses in all parts of the cotton region, with the result of easing the planter more and more, giving good and generous returns to the enterprising projectors of these warehouses, and relieving the stringency which has prevailed in many places of industry and business. Fortunately, this plan seems to be one which can be taken up by the local people of almost any good cotton market in the South, as the amount of money involved is not large. It is a plan worthy of careful study on the part of the business men, bankers, manufacturers and planters, particularly planters.

The South Carolina act of 1895 was inspired by Mr. Charles K. Oliver, treasurer and general manager of the Columbia Mills Co., Columbia, S. C. In a letter to the Manufacturers' Record Mr. Oliver writes:

The main feature of the law is that it creates the bonded warehouse, and in addition to the capital of the warehouse company, the holders of the certificates are further protected by the surety bond of some trust company. The general warehouse law of South Carolina is a very complete measure, offering every reasonable protection. The new law in question adds to this by giving an additional financial protection from the guarantee of the surety company, a desirable collateral in any financial center, and it is surrounded with all the protection that can possibly be given to any evidences of security.

A standard warehouse issuing a certificate of this kind enables not only the manufacturer but the planter to store his cotton, and with the certificate to get advances from any financial institution, and, in my judgment, it will prove a great help to the planter, inasmuch as the character of the security demanding the lowest rate of interest, he is relieved of any extraordinary charges such as it is necessary for the factor to charge when he carries the cotton for the planter. In the case of the warehouse company, they simply charge a fair rate to cover the storage and insurance. The certificates, when issued, state plainly the amount of storage charge per bale per month and the amount for which the cotton represented by the certificate is insured.

This warehousing system should put the holders of cotton in a position to obtain their money at the lowest rate of interest that prevails.

Before presenting the detailed plan of operation as given in the letter from Charlotte, the Manufacturers' Record has submitted the matter to a number of leading financiers. Without exception they have said that it is a revolutionizing plan, and that while there may be some obstructions in the way of working out the system at the start, it promises to make the entire cotton crop available to the South as a ready asset for credit, and give to this section a very great possible extension of banking facilities. It is to be hoped that in the working out of the idea nothing will develop to lessen the present promise of benefits to the South.

#### Economic Changes of Benefit to the Public.

The world is passing through a great economic revolution, the final outcome of which no one can foretell. We know that it is not a step backward, for civilization is steadily advancing. However many hardships this revolution may bring to the few, it will bring greater benefits to the many. Since the world was created civilization's progress has been over the ruins of individual interests. The individual who

suffers because of changes that benefit mankind at large may bitterly decry his fate and claim that everything is going to destruction, but he cannot change the workings of Divine Providence, nor stop the advance that, while bringing suffering to him, brings comfort to many others. He may wish that the world had been so created that every man should be equally as gifted physically and mentally as every other man; that there should be no poverty and no sickness, but however much we might wish that this were the case, we know it is not true, and we know that all our wishing is in vain. The veil that hides from us the mysteries of these inequalities will not be lifted at our will, and all our railing against what may seem our individual misfortunes will in no wise change the inexorable laws under which we exist.

The economic changes, or rather the effects of these changes, against which the thoughtless are railing are seen in every country and in every business pursuit. Consolidation, co-operation, corporation, are simply the means of working out the changes. The railroad supplanted the stage driver, to the latter's loss, but shall we on that account abolish railroads? The consolidation of half a dozen badly managed small railroads into one compact organization means loss to individual officials, but it means better train service, more comfortable traveling facilities, and eventually lower cost of freight and passenger rates. Where one man suffered a hundred or a thousand have been benefited. Take, for instance, the Southern Railway Co. It is composed of probably a dozen separate broken-down roads, now compacted into one solid, substantial through line. These individual roads could not give through rapid train service, nor were they able to do anything to develop the country tributary to them. In its present strong organization this company can spend vast sums developing great shipping facilities such as it has provided at Norfolk and elsewhere; it can encourage, as it is doing, the development of cotton manufacturing, iron-making, coal mining and other industries; it can maintain a well-organized immigration and industrial bureau and spend thousands of dollars to bring capital and settlers South—all of this is possible in its present consolidated form. Would it be even worth considering to think of disrupting or opposing such an organization merely because in benefiting thousands and millions a few hundred, possibly a few thousand, have lost their employment? What is true of this line is equally true of others, such, for instance, as the Illinois Central. Would it be possible for half a dozen small roads to do the wonderful work for the South that the Illinois Central can do because of its very strength and magnitude? But the Illinois Central, by developing the grain interests of New Orleans, is turning millions of bushels of corn and wheat to that port, which but for this road and its work would be exported via New York. New York shippers are being made to lose, but shall we fight the laws of trade because of this and say that the Illinois Central is ruining the country because as a result of its work some New York grain men are losing their business?

The sensational papers and the political demagogues never cease to make war upon the Standard Oil Co., but by reason of the operations of that company millions of consumers pay for safe, practically non-explosive oil scarcely one-fourth of what they for-

merly paid for inferior, dangerously inflammable oil. Shall these millions in all parts of the world be made to pay forty cents a gallon for dangerous oil, instead of ten cents for safe oil, in order that a few hundred more middlemen may find employment? Isn't the very question itself almost absurd? The much-berated Sugar Trust is accused of many sins and of oppressing and destroying the poor, but the power of consolidated enterprise has enabled this very company to furnish to this country better and much cheaper sugar than we ever dreamed of a few years ago. The consumer gets the benefit. There are trusts and combinations that oppress by seeking to advance prices, but they have in themselves the seeds of destruction. Every successful combination of railroads or industries must have as its main point the reduction of cost to the public, better service and lower rates if it be a railroad combination, or lower prices to the consumer if it be a manufacturing undertaking, or else it is foredoomed to failure. In consolidations and combinations lower cost can be secured, and the public must have the benefit of this. The very success and permanency of the organizations just mentioned are based on this fundamental truth. The Commonwealth, a religious paper of Philadelphia, in discussing these facts as they relate to the reduction in cost to consumers through the operations of aggregated capital and to the doing away with the middleman, says:

The remedy is not in denouncing or attempting to abolish all of these combinations of capital. They cannot be abolished. They are part of the new order of things. In the present stage of human civilization, not wholly good, and by no means wholly bad. The world is very small, and is looked upon chiefly as a place for trading. Steam and electricity have done away with all business privacy, and the prices of all markets are known everywhere at every moment of time. The old arrangements of fixed grades of prices, wholesale and retail, when the wholesaler fixed the retail rates and protected his retail customers, are gone forever. Each one gets what he can. Machinery and rapid transit, which greatly cheapen the cost of everything, have brought all this to pass.

However, we must remember that these combinations of capital are for the interest of the workman and the poor. They bring the goods of the world to the humblest door at the smallest cost, so that the laborer lives vastly better for less money than he did a generation ago.

The South can afford to rejoice at the opportunity to buy cheap oil and cheap sugar even more than other sections, because in the process of bringing these things about it had but few individual losses through the abandonment or disuse of unfit or unwisely located sugar and oil refineries, which, however necessary in the progress of these revolutions, is always fraught with more or less local hardships. It gets the benefits without the costs that the change imposed upon others. Ever since the war it has paid enormous sums to other sections for these things, as well as for agricultural implements, for household goods and for foodstuffs. The lower prices, therefore, mean many millions of dollars saved to the people of this section. The Manufacturers' Record believes in taking a perfectly fair and honest view of every public question, without regard to what the prevailing sentiment of the day may be, and so it submits these ideas, which are contrary to the popular clamor of the times, to the thoughtful consideration of its readers.

An organization of the building and loan associations of the State in a State league is contemplated in Texas.

#### Industrial News from Birmingham.

[Special Cor. Manufacturers' Record.]

Birmingham, Ala., February 28.

There has been the past week only a quiet steadiness in the market for iron. It was devoid of all interest. The furnace interests, with their last meeting (for the present) adjourned. They gave out for publication the item that they were united in sentiment and united in action. Beyond this one cannot penetrate officially. But it is current talk that delivery prices in the various geographical buying districts are fixed by a central authority and a list of grades and points of delivery are furnished sellers as a guide. Should a seller violate the official rates he is investigated by the commissioner, and if his course does not seem to be justified by circumstances, he is reported and hauled up for judgment and mercy by a jury of his peers. As long as they are all of one mind as to the condition and outcome of the market it will be very plain sailing; but when A finds out that B is a free seller, while his iron lags and is slow of sale, though the official price is tagged on it, he is going to suspect that inducements are necessary for business.

The market is a waiting one. Some buyers, putting confidence in the exaggerated and erroneous telegrams sent out to the daily press, have been waiting for the promised break. They have tried to hasten it by bidding under the market; but they did not meet with any success. Sellers see in the situation only encouragement for better prices. Without war they agree that prevailing prices show such a narrow margin of profit that any activity in demand could only result in higher prices. With war, industrial labor would furnish the ranks with many soldiers. The deficiency this would create in labor would raise wages, and this, followed by increased prices of other elements, would necessarily advance the price of iron. So that, either with war or without war, the argument is, prices must advance. Among the important buying interests are the pipe works. They have not yet been in the market, except in a perfunctory sort of way. They usually commence in March and set the pace for activity. Their buying is yet ahead of us.

The old Ensley Land Co. has been reorganized and practically reorganized. The first transaction was the purchase of 250 acres of land from the trustees of the old company, on which is to be located projected industries, some of which are being initiated. Streets are being laid off, dwellings planned and a town is in the throes of birth.

At the Avondale Mills everything is active to start the works by April 1. Machinery, as fast as it arrives and can be handled, is being placed, and a village of empty dwellings is ready for the employees. About ninety houses are completed and in course of completion. A schedule of prices, based on \$1 per room per month, makes the rent to the operatives very moderate. The minor industries are flourishing. The increased business of the Warrior Machine Works has induced the company to rent adjoining room for storage purposes. The Alabama Bridge and Boiler Works report shop full of work and more in sight. The Hood Machine Co. is running to full capacity, mainly on repair work. The Means & Fulton Co. has contracts for several boilers, lumber buggies for South Alabama, harrow irons for Tennessee, besides repair work "day without end." On every hand one is greeted with the evidence of increasing business. No one grumbles at the lack of work, but you do hear occasionally some discontent about the smallness of the margin of profit. J. M. K.

## COTTON IN BONDED WAREHOUSES.

A Plan That May Remedy the Troubles of Planters and Merchants in the South.

[Special Correspondence Manufacturers' Record.]

Charlotte, N. C., February 21.

The Charlotte Bonded Warehouse Co., which has begun business in this city, is the pioneer institution of its kind in the South, and from the character of its operations it is destined to attract a great deal of attention in the commercial and industrial world. It has always been claimed that an organization or corporation along the lines of the Charlotte Bonded Warehouse Co. has been one of the great and crying needs of the cotton-producing States, so there is reasonable ground for the belief that the Charlotte venture will prove a success. That will mean the establishment of similar bonded warehouses throughout the cotton belt and a resultant improvement in the condition of the farmers. It is a beneficent institution, for it provides for the farmer a way to borrow money on his cotton, and enables him to hold it until the condition of the market may be such as will induce him to sell. The warehouse is an institution founded on cotton, and its operation is simple.

It receives and stores cotton and manufactured products at low rates, issuing therefor warehouse certificates which are negotiable at any bank. The farmer can store a bale of cotton in the warehouse and get a certificate, and this certificate is convertible into cash as readily as a check.

Perhaps a clearer explanation of the workings and system of the warehouse might be given in a supposable transaction between a farmer and the company. First, one should bear in mind the fact that the average Southern farmer is obliged to sell a portion, if not all, of his cotton crop in the fall to get cash to pay his debts. He generally owes the merchant who "runs" him during the year, and if he is not himself pressed for money his croppers always are, and as soon as the first bale of cotton is picked it must be sold and the silver divided out among them. The farmer has heretofore had no means of raising money on his cotton except by an outright sale of the staple, no matter how low the market. It is as a remedy for this helpless condition of the farmer that the bonded warehouse is to be viewed in the light of a beneficent institution. Now, as to its operation:

Farmer Jones has brought his first bale of the new crop to market, and he must get the money for it, as his debts are due and must be met. He tries the market and finds that the best he can get for his cotton is five cents per pound. He can't afford to sell at that price; but he must have the money, and he must sell. Must he? Here is where the bonded warehouse comes in. He takes his cotton there, where it is stored, and he is given a receipt. He pays fifteen cents per month to the warehouse as a storage and insurance fee. The receipt which he is given is negotiable at the banks, and on it the farmer can realize an amount within one cent of the market value of his cotton at the time. Say Farmer Jones's cotton is worth five cents today. He can get four cents on it in cash and hold it; he can get an advance of four-fifths or more on the market value of his entire crop, and hold his crop. With this money he meets his pressing obligations and is independent of the market until such time as he may be inclined to sell.

Under this system the marketing of the cotton is entirely in the hands of the farmer, and the effect upon the price of

cotton by a general establishment of bonded warehouses of this class throughout the South, it may be imagined, would be beneficial. The operations of the warehouse are not confined alone to the cotton of the farmer. The cotton mills will be benefited. Mills would often buy cotton ahead, except for lack of capital. Under this warehouse system they can buy cotton, store it and hold it at a trifling investment in actual money. Furthermore, the warehouse takes manufactured and other products and gives negotiable receipts upon them, as in the case of the farmer's cotton.

The warehouse building of the Charlotte Company is located on a wedge-shaped piece of land in the northern section of the city, the doors of one side opening on the tracks of the Seaboard Air Line Co., a frontage of 840 feet, and on the other side opening on the Southern Railway Co.'s tracks, a frontage of 700 feet. The building is one story, with a capacity of from 15,000 to 20,000 bales. It is divided into compartments, each having a capacity of 1000 bales, a fire wall between each compartment. The doors will be fireproof (the building is under construction), and the structure will be strictly standard, not only fulfilling every requirement of the insurance companies, but meeting all of their suggestions. The company is already doing business, having now 1100 bales stored in a leased building.

The Charlotte Bonded Warehouse Co. is incorporated with a capital of \$12,000, with privilege of increasing it to \$50,000. It is bonded in the American Bonding & Trust Co. of Baltimore for \$100,000. Its secretary and treasurer is bonded in the same company for \$10,000.

E. B. Springs, the mayor of Charlotte, is president of the company, and T. M. Constable is secretary and treasurer. The directors are E. B. Springs, J. H. Sloan, H. S. Chadwick and J. P. Wilson, of Charlotte; E. F. Caldwell and G. H. McFadden, of Philadelphia, and J. E. Reynolds, of New York.

Secretary and Treasurer Constable permitted the representative of the Manufacturers' Record to inspect the system devised for the protection of all parties concerned in case of fire—the insurance companies, the warehouse company and the depositor. It is simple and has apparently all the elements of perfection. Each bale is numbered and a record of its weight entered in a book. A sample, to show its grade, is also kept, and an equitable adjustment of a fire loss is made possible in a few minutes, no question being left open for dispute. The insurance feature is also a good one, the insurance being kept up to a level with the market. If the market price is five cents at the time a bale is stored, it is insured on that basis. If the market advances to five and one-half cents or any other figure while that cotton is in the warehouse, the insurance on it is increased accordingly.

The local banks regard the warehouse receipts as what is generally termed gilded security; in fact, they are looked upon the same as a bank note.

WADE H. HARRIS.

Mr. R. A. Evans has been selected as manager of the Charlotte (N. C.) freight bureau, organized under the auspices of the Southern Manufacturers' Club of that city.

## THE INDIANAPOLIS PLAN.

Mr. W. R. Trigg's Speech Before the Virginia Bankers.

One of the most practical speeches before the recent meeting of the Virginia Bankers' Association, which endorsed the Indianapolis currency plan, was that by Mr. William R. Trigg, president of the Richmond Locomotive and Machine Works. He said: "I feel as if I had a right to speak to you, having passed fourteen years of my life in the banking business, and including these years I have been since 1865 so employed as to be in constant touch with financial matters. They have always interested me greatly, and I have given them some study—study upon their practical application—and I have long felt that under that test the present banking system is unsatisfactory, and a menace everywhere, and a hindrance here in Virginia and the South to business and a full measure of prosperity.

"I may as well state it now, as later, that, in my judgment, the 10 per cent. bank tax is the root of all evils. It has robbed labor of its reward; it is the genesis of all financial heresies, or I should say expedients, for the heresies are expedients, justified by this curtailment of liberty, the 10 per cent. tax preventing people doing with their own as they would, not allowing them the use their credit. I am for the unqualified repeal of the tax, but this cannot be secured now (though perhaps later), for a very large majority of the people of all sections of the country oppose it; they have drunk deep of the poison of a note 'good everywhere,' and they will not resign it, and so I have long determined to embrace a modified repeal, if ever offered—the more liberal the better—and I am here to confess that my expectations were surpassed in the plan adopted by the Indianapolis convention on the 25th ultimo. I am on the executive committee of that body, and would only be too happy to feel that its plan would soon be the law of the land, but the obstacles are many. The plan could perhaps be improved, but when I found myself at the convention, with two pages of suggestions, and discovered that each of the 400 delegates had as many amendments as I had to offer, I concluded to take the work as I found it, and really it does very well and suits the wants of our people, I think, admirably. Through it we would soon reach absolutely free banking—that is, banking upon assets under government supervision, which supervision is perhaps essential, since the note issue is guaranteed.

"A return to free banking—a panacea indeed. When I contemplate the possibility of that words fail me to express my feelings. I would rather be the agent to bring this about, as a good for our people, than to achieve any other distinction. Under free banking the South absolutely outstripped any other section or division of the Union; none had their fiscal affairs better in hand. The prejudices against ante-bellum banking are due almost wholly to the experiences in the newly-settled West, and the crudities there were fast disappearing when the war began; New England, leading in the Suffolk system of ready redemption, with growing intercommunications, improvements in methods, was the order of the day. We all know, either from memory or hearsay, of the peerless men of affairs, whose names are synonyms of all we would have our merchants to be—names revered as patrons of nobility—who managed our great banks—the Virginia, the Farmers, the Valley and many other banks, whose notes brought quite a large

percentage of their face value after the war; indeed, these notes stand alone as the only things that did survive the war; but they could not save nor revive their parents—the banks themselves. They were stricken down by the national banking law that made the free bond—just as President Lincoln's proclamation made the bond free—and I contend more harm has come from this pampered 'tame cat' law than was suffered from the 'wild cat' law, many, many times over, and at last it has divided our people; but this seems a digression and, plainly, I am on my hobby.

"Although the Indianapolis convention was non-political, and purposed only to offer a measure that was for the good of all, I feel almost in despair at having it so considered—money is in politics. The adoption of the gold standard creates alarm in the minds of many, and yet this does not mean gold monometallism, as projected at Indianapolis, for, although gold is 'nominated,' it is measured in many millions of silver—nearly 520 millions—each voter in this country being supplied with an average of forty measures. With 680 millions of gold and 520 millions of silver, interchangeable, and with the right to issue notes upon assets, which I estimate may reach on occasions 1000 millions, makes a money monopoly impossible (without doing away with the money center, so useful for the settlement of trade), and if we can do away with the money monopoly, then gold has no dread and free silver no charm—indeed, I consider the plan as a net triumph for silver men, offering more than they asked, and that without any sacrifice of party fealty. This is a case of crying peace when there is no peace—while disclaiming politics, I am talking politics.

"This is an august gathering—the bankers of Virginia. Presuming its membership represents all the institutions of the State; 120—thirty-five national and eighty-five State banks—with a capital of \$10,360,000; with a surplus of \$6,061,000; with individual deposits of \$31,737,000; with loans of \$32,435,000.

"What a power—for good! What would limit their helpfulness to our people, if untrammelled by law, for whether State or national, the men who manage them have no thought but to serve their State and to maintain her glory. I venture, Mr. President, to make this suggestion, that this meeting when it adjourns, adjourns to meet here six months from now to organize for frequent meeting—many nickles make a nuckle—and the presiding officer of this body wields great power, and he will always use it for the benefit of the State, whose people, since they entrust him with thirty-two millions of deposits, will they not trust him to devise some plan to relieve them of their present dissatisfaction with the currency laws? I stated before the banking and currency committee of Congress over a year ago that the government itself, from a financial point of view, had not the power for good that your debared State institutions possess, as they stood ready to expand in usefulness to the people, under an amended law, and as soon as the unjust discrimination against them is removed."

## Wants American Metals.

Mr. W. Stamply, of Naples, Italy, writes to the Manufacturers' Record, asking to be put in communication with first-class exporters of metal products, such as pig iron, lead and copper; also exporters of hides and skins who are desirous of making offers in Italy. Mr. Stamply reports that he can send the highest references.



## MANUFACTURERS AND RAILROADS

## Houston Business Men Alert to Advance the Interest of Each.

[Special Cor. Manufacturers' Record.]  
Houston, Texas, February 28.

A delegation of Houston business men are now in Washington looking after the interests of the ship channel from this city to the jetties at the mouth of Galveston bay.

The International & Great Northern Railroad, part of the Missouri Pacific system, is building a magnificent new depot on Congress street to take the place of a very inferior building. It is understood that the Gulf, Colorado & Santa Fe will follow the example of its rival and also build within a short time a fine depot.

Mr. John F. Dickson, president of the Dickson Car Wheel Co., said this morning to the correspondent of the Manufacturers' Record: "Our output for the year 1897 was double that of any previous year, and of course we are entirely satisfied." Asked concerning the prospects for business in 1898, Major Dickson said: "We are very glad to tell you what we have done, but it is not our custom to speculate on the future. No business man can tell what a year will bring forth, and while we are not the least nervous as to the future, our business, like that of any other industrial institution, will depend largely upon the crops, finances and other influences which affect business."

Lottman Bros., manufacturers of mattresses, bed springs and that class of goods in general, report 1897 as a much better year than 1896. This company has now in contemplation the manufacture of furniture, and have already commenced the production of certain articles. They have investigated the matter thoroughly and feel that the future is full of promise.

A prominent manufacturer of shoes from the State of Indiana has given the Houston Business League notice that he will be in this city to confer with the manufacturing committee of the league with a view of locating in this city, if satisfactory arrangements can be made.

Among the lumbermen there is a better outlook than for some years past. In fact, advance orders have been placed which are sufficient to keep the saws moving through the dull season all through Eastern Texas and Western Louisiana. The improved conditions in the wheat belt, which includes North Texas, Indian Territory, Oklahoma and Kansas, have had a very satisfactory effect upon the lumber trade.

Increased tobacco culture in South Texas, and especially the coast country, is now a subject of almost universal interest. There is a movement in this State in the direction of diversified farming, and the growth of fine cigar tobacco is receiving a great deal of attention. Mr. A. R. Moore, president of the Texas Tobacco Growers' Association, says that 15,000 acres will be planted in tobacco in Texas this year.

A meeting called jointly by Hon. C. A. Culbertson, governor of Texas, and Hon. S. J. T. Johnson, vice-president for Texas of the Transmississippi and International Exposition, has been called at Austin for March 4. The governor has asked the mayors of towns and cities and all commercial organizations to send delegates. There will also be present local chairmen of different committees and vice-presidents from the several senatorial districts of the State. The people of Texas seem determined to be well represented at this first great exposition held west of the Missouri river.

Mr. W. A. Childress, president of the

Houston Business League, said to your correspondent: "The business outlook at Houston is certainly promising. There is a general feeling here in favor of increasing our manufacturing enterprises. We feel that we can produce furniture at a profit, and certainly no city in the country affords the manufacturers of shirts, overalls and negligee goods in general a better field than does Houston. In the production of tile, especially for under-drainage, there is almost an unlimited market here, and an experienced man with capital could not possibly find a better opening."

The Bayou Box and Basket Factory, located at Harrisburg, a suburb of this city, has its machinery now in place and will begin the production of fruit and vegetable boxes inside of ten days.

The first big rifle gun for the fortifications at Galveston shipped at Houston one day en route to Galveston. The famous Houston Light Guard acted as a guard of honor. It is called a 10-inch steel rifled gun, ten inches being its caliber. It weighs 30,000 pounds and cost \$30,000. It costs \$500 each time it is fired and fires forty shots an hour. It throws a projectile ten miles. Thousands of Houstonians, as well as visitors, went to see this grim destroyer.

The Galveston, La Porte & Houston Railroad has been ordered sold by the United States Circuit Court on May 3 to the highest bidder. The upset price is \$500,000. Mr. Collis P. Huntington, president of the Southern Pacific, sometime since offered \$1,000,000 for the road, but an agreement could not be arrived at by the creditors. It is also reported that the Kansas City, Pittsburg & Gulf is after this line, which connects Houston and Galveston.

There is considerable activity in building circles here, a number of business houses, as well as handsome residences, being under construction. Several manufacturing plants propose making extensive improvements, but your correspondent was not allowed to give particulars.

## SEGUIN'S WATER-POWER.

## Advantages of a Texan City for Manufacturers.

[Special Cor. Manufacturers' Record.]  
Seguin, Texas, February 26.

The river upon which Seguin is situated falls 240 feet in thirty-two miles on a straight line, and, including its meanderings, makes an average fall of six feet to the mile. The volume of water taken on February 9, 1898, while the river was low, was 43,770 cubic feet per minute. This is regarded as the best stream of its kind in Texas. It has natural falls from four to six and one-half feet, as many as three or four within four or five miles of this place.

The people here are friendly to the investment of Eastern capital, and last year raised a handsome bonus for an oil mill, which resulted in the National Cotton Oil Co. coming here and establishing a plant at a cost of \$125,000. This station ships 15,000 bales of cotton annually.

## Industries at Marion.

[Special Cor. Manufacturers' Record.]  
Marion, N. C., February 25.

Marion, the seat of McDowell county, is twelve miles from the foot of Blue Ridge mountains, one hundred miles west of Salisbury and forty-two miles east of Asheville, N. C., on the Southern Railway, and at present the western terminus of the Ohio River & Charleston Railway. Its altitude is 1402 feet above sea level. The population is 1200. The town is new in structure, as the entire business part

was burned to the ground November 27, but all of it has been rebuilt by commodious brick buildings, as well as many nice residences. Among Marion's industries are three furniture factories, one tobacco factory, one planing mill, one steam roller flour mill, one tin repair shop and two tanneries. Labor and living are cheap; good water, pure air, and plenty of room for those desiring good locations for Southern homes.

## NEW YORK INVESTORS.

## Their Position Toward Opportunities in the South.

New York, N. Y., February 8.  
Editor Manufacturers' Record:

Six weeks' residence in Greater New York is a very limited time in which to learn much of the ways and means of its go-ahead people, but it has been sufficient to teach me many facts that may be of interest to your readers throughout the South.

As my mind naturally turned to my former home—Norfolk—my first investigations have been in the line of how that city stood in the eyes of this center of the capitalistic world. I was gratified to find that Norfolk was appreciated and that there was great faith in its future progress. So true is this that upon the presentation of any enterprise to be developed at that point one immediately secures an attentive hearing and a promised investigation. The rapid rise of Norfolk since 1886 and the bright prospects for the future are well known to many, and I believe I am not overstating the situation in asserting that Norfolk enjoys the confidence of investors to as great an extent as any other Southern city. In fact, my own feelings prompt me to say greater. However, I hope I may be pardoned if I venture to point to some of the impediments to the employment of Northern capital in Southern institutions as impressed on me by everyday association with people who really want to find solid enterprises in which to invest their money. At no time heretofore has there been such a plethora of idle money in New York, and each week witnesses large additions without any seeming end to the influx of surplus funds. From all quarters it comes, while the means of profitably employing it in nowise keep pace with the supply. The South generally can present attractive, solid investment opportunities to profitably utilize this great mass of money which so burdens the banks and makes rich men grow prematurely gray from sheer inability to get rid of it wisely. Two causes make all hesitate about Southern investments, namely—first, fear of unwise legislation, more than all other reasons, prevents the turning of the tide of Northern capital to the South; second, the want of familiarity with the ideas and demands of the capitalists, who will buy almost any kind of a bond provided it is clearly shown that it rests on a paying enterprise.

With proper effort, presenting really deserving, honest schemes for progress and profitable investments, ample money can be obtained in this city, but it must not be on the old lines. To one used to the old-time method of stocking companies by subscription it would seem impossible to accomplish the raising of money in any other way, but all such propositions are promptly refused and New York ideas are suggested. Lots of plans are presented every day, with the result of a pretty effectual culling out and a consideration of the best only. I venture to write this short letter with the hope that some good may come of it, either in calling a halt on some of the many unwise propositions in Southern

legislatures, especially in Virginia, or in inducing other efforts on the part of our people to secure part of the enormous wealth now here seeking investment.

WALTER SHARP.

## OPPORTUNITIES AT BRAZORIA.

## The Texas Town Ready to Welcome Capital.

[Special Cor. Manufacturers' Record.]  
Brazoria, Texas, February 22.

Brazoria offers many inducements for factories. It has a healthy location on the Brazos river, twenty miles from the Gulf. By summer it will have both rail and water communication, which insures a low freight rate. The river is navigable for ocean steamers, and with the completion of the jetty at the mouth of the Brazos there will be a first-class seaport.

The people are wide awake and progressive, and are ready and willing to aid any enterprises for the upbuilding of the country. Labor is cheap and reliable. The climate is an ideal one for the workman. He can work 313 days every year in the open air and only stop for the rain; the winters are short and mild, the summers cool and pleasant; the Gulf breeze comes pure and fresh laden with health and vigor, and fruit and vegetables are abundant—all this reducing the cost of living to a minimum.

Valuable concessions and aid will be given to a cotton factory and central sugar mill. The raw materials are at the factory doors, waiting the manufacturer.

The Brazoria College will open its first session September 5 in a magnificent four-story fireproof brick building, which was constructed by the county three years ago at an outlay of \$80,000. The board of directors will be in the market for school furniture, apparatus and fixtures for the boarding halls, as well as a faculty.

Negotiations have been closed for a first-class saw mill at Brazoria. The mill will begin operations very soon. Thomas Thompson is the owner of the mill, and is an experienced mill man from Missouri.

A telephone line will be constructed from Brazoria to Alvin, a distance of thirty-five miles, taking in Angleton (the county site). At Alvin arrangements will be made to connect with the long distance lines of the Southwestern Telegraph & Telephone Co.

Negotiations are under way for a \$200,000 central sugar mill at Brazoria. The adjacent country for a radius of twenty miles is among the richest and most productive sugar lands in the South. Local, together with Northern capital, may be interested.

## GOLD IN ALABAMA.

## Preparing for More Extended Mining Operations Near Alexander City.

[Special Cor. Manufacturers' Record.]

Alexander City, Ala., February 27.

The mine known as the Ulrich Place, Dutch Bend, and present title "La Mascota" (the Mascot taken from the noted La Mascota hacienda belonging to me in Queretaro, Mexico), will begin work the latter part of March under a new company. Dr. H. J. Cameron will still have the management and be one of the principal shareholders. There is at present a modern 10-stamp mill erected, with the latest improvements. It was shut down a short time ago, not for the lack of paying ore, but for the very simple reason that a change in the process of treating the ore was necessary. Nearly all the ore in this country is free-milling on the surface, but at a very short depth becomes a sulphide ore. Then it is necessary to concentrate and ship the concen-

trates to a smelter or put in chlorination, cyanide, Russell, or some process suitable for a rebellious ore. We intend putting in either the chlorination or cyanide, and will have the plant ready within ninety days. Work will begin in March. The "La Mascota" mines are now in shape to extract from 100 to 300 tons per day of twenty-four hours.

The Alabama King Mining Co., incorporated some twenty years since to work what is generally known as the Bonner-Terrell mine in this country, twelve miles from Alexander City and five from Dadeville, is now being worked on an extensive scale by the present owners. The officers of the company are S. B. Bennett, Atlanta, president; Dr. H. J. Cameron, Alexander City, vice-president and consulting engineer; C. H. Scofield, secretary and treasurer; H. C. Crippen, general manager. Captain Galbraith is in charge of the mines. This company has just bought three carloads of machinery, which are now at its place, consisting of a battery of three 40-horse-power boilers, one 75-horse-power engine, ten stamps, hoist, elevators, dynamo for lighting the mines and mill, concentrators, etc., and will add a cyanide plant in the near future. The success of this company is assured, as its has a high-grade ore. Nothing short of mismanagement could produce a failure.

About one mile from the Bonner-Terrell mine Dr. Cameron and associates intend putting in concentrators and sizers, using Kromin rolls. Work will begin March 1, 1898.

Six or seven miles southwest of the latter place there are at present three stamp mills at work and paying. Two of the mills belong to Messrs. Hall & Phillips, of Dadeville, Ala. The other belongs to Mr. Farrow. There are at least ten other properties in this vicinity which will be worked within the next sixty days.

#### To Stay the Floods.

As a modification of reservoirs on catch basins at the headwaters of the Mississippi and its tributaries, Senator Nelson, of Minnesota, suggests for the prevention of floods in the Mississippi that the St. Francis basin be converted into a number of reservoirs. This basin extends, on a river line, from Commerce Landing, Mo., to Helena, Ark., a distance the way the crow flies of about 240 miles. The basin is, on an average, thirty miles wide; that is, from the western river bank to Crowley's ridge. At some places it is wider and at others narrower. Senator Nelson's idea of making this a reservoir, or a number of them, is about as follows: He proposes to run a series of levees from the river to Crowley's ridge. These levees, nominally, would pursue a straight line. He would have one about every twenty-five or thirty miles. That would make eight or more from the head of the basin to the lower end. He calculates that the area between these cross levees would catch and hold the water until the flood stage was passed. As it were, eight or more vats placed in the St. Francis basin would control the floods, becoming depositories for the water that would otherwise flood the basin and devastate the country. Engineers and levee experts say the plan is not only impracticable, but almost impossible.

The propagation and cultivation of fish by the government is interestingly and instructively described by Joanna R. Nicholls Kyle in Frank Leslie's Popular Monthly for March. The article has the felicitous title, "Aquatic Protoges of Government," and is profusely illustrated.

## COMMERCE.

This department is devoted to a record of the rapidly developing commerce of Southern ports.

### Consular Service and Exports to South America.

The selection of consuls from the United States to different portions of the world was recently discussed by Mr. John M. Beach, of Tefft, Weller & Co., of New York, at a meeting of the Merchants' Association of that city. Mr. Beach stated that very few of the people in the United States seemed to realize the importance of seeking foreign markets for our surplus of manufactured products. The products of the factories have run ahead of the demand in our own country. As a natural sequence, the competition between the trade centers of the United States has become fiercer each year, and in a large measure these centers have been practically living off of each other. This, to a great extent, could be avoided if the United States had pursued the same policy which for years has been pursued by Great Britain, France and other countries.

Mr. Beach called attention to the excellent consular service of Great Britain, France and Germany, which has been instrumental in increasing the export trade of these countries. He stated that the efficiency of United States consuls in South America, Africa and Asia was not up to the standard of our representatives in Europe, and that a decided improvement could be made in this respect. Referring to the former countries, he said:

"South America, Africa, large portions of Asia and many of the larger islands in the Pacific are developing very rapidly. They require locomotives, cars, rails and all the appurtenances of railway building for both steam and electric roads, electric lighting and heating apparatus, farm and garden implements, telephones, and, in fact, nearly everything that one can think of needed in the progress of this modern civilization, and which articles we have brought in this country to the very highest degree of excellence.

"If we desire that this country shall grow in its commercial importance as it ought to grow we have got to get together, as the British merchants have done, through this Merchants' Association here in New York, which I regard as the best means toward this end, and open up the markets of the world wherever it is possible for us to gain a foothold. Our exports of merchandise have increased very largely of late, but we must extend that export business more and more, else we will find that our factories will have to shorten their time of work, or their employees will have to receive smaller compensation for the labor which they do."

### New Orleans Steamship Lines.

The really wonderful development of New Orleans as an exporting city is perhaps best shown by the number of steamship lines now running between that city and foreign and coastwise ports. No less than thirty-seven companies, all but one controlling steamships, are engaged in the New Orleans business. The appended list shows the number and the principal ports to which they sail: Harrison Line, between New Orleans and Liverpool; West Indian & Pacific Steamship Co., New Orleans and Liverpool; Elder, Dempster & Co., New Orleans to Liverpool, Havre and Bremen; Glynn Line, New Orleans to Liverpool; Compania de Navigacione le Flecha, New Orleans to Liverpool; Thompson Line, Dent Line, Milburn Line, Ross Line and Beaver Line, from New Orleans to Havre, Bremen,

Hamburg, Genoa, Antwerp, London and Swansea; Joseph Hoult Line, New Orleans to Havre; Larrinaga Line, New Orleans to Liverpool; Lamport & Holt Line, New Orleans to Liverpool; Prat's Spanish Transatlantic Line, New Orleans to Barcelona and Genoa; Panillos Line and Jover Line, New Orleans to Barcelona, Genoa and other Mediterranean ports; Hamburg-American Packet Co., New Orleans to Hamburg and other ports; Pioneer Line, New Orleans to Manchester; Serra Line, New Orleans to Liverpool; Prince Line, New Orleans to Havre, Antwerp, Spain, Portugal and the Mediterranean; Allan Line, Anchor Line, Gulf Baltic Line, Austro-American Line and Gulf Ports Steamship Line, New Orleans to Amsterdam, Bordeaux, Bremen, Dunkirk, Genoa, Hamburg, Havre, Liverpool, Rotterdam and points in Finland, Russia, Sweden, Norway, Italy, Holland, Belgium, Germany, England, Scotland and Japan; Chargeurs Reunis, New Orleans to Havre and all continental points; Cuban Steamship Line, New Orleans to London and Antwerp; Oteri Steamship Line, New Orleans to Ceiba, Honduras, and Bluefields, Nicaragua; Central American Commercial Steamship Line, New Orleans to the Republic of Colombia; H. Dumois Steamship Line, New Orleans to Havana and Southwestern Cuban points; Bluefields Banana Co., New Orleans to Bluefields, Nicaragua; John G. Woods Steamship Co., New Orleans to Bluefields, Nicaragua; Royal Mail Line, New Orleans to Belize, British Honduras; Mexican Gulf Steamship Co., New Orleans to Tampico, Mexico, furnishing through bills of lading to all Mexican points; Morgan Line of steamers, New Orleans to New York, Florida and Texas ports and Havana, Cuba; Cromwell Steamship Co., New Orleans to New York; Benner's Sailing Line, New Orleans to New York.

### Jottings at the Ports.

The first cargo of coke for Chili, South America, ever sent from Baltimore has been cleared from that port. It consisted of 793 tons, shipped by the Davis Coal & Coke Co. The coke comes from the ovens of West Virginia.

The steamship Valhalla has cleared from Charleston for Liverpool with a cargo made up of wheat, cotton, flour, cottonseed cake, rosin, lumber and cottonseed. This indicates the variety of exports from the South Carolina seaport.

On one day recently fifty steamships were taking on cargo at New Orleans. Of this number forty were loading miscellaneous articles for Europe, five were coastwise vessels and five others were engaged in fruit trade with the West Indies and Central America.

Among the steamships which recently cleared from Mobile were the Specialist for Liverpool and the Yumuri for Cuba. The latter's cargo consisted of cattle, chickens and eggs, while the cargo of the former included cotton, cottonseed meal, pig iron, corn, lard and staves.

A dispatch from New Orleans announces that a company has been formed to take the place of the Anchor Line of steamboats which maintained a fleet on the Mississippi river until it discontinued business. A. Meissonier, of St. Louis, purchased the boats of the line and is one of the promoters of the new company. It is intended to continue the service between New Orleans and St. Louis.

According to a dispatch from Brunswick, Ga., the freight business at that city has become so large that the Southern Railway Co. intends extending its docks a distance of 350 feet, while the Plant system is adding to its water front-

age. It is stated that \$250,000 is now being spent in the extension of wharves. There has been a marked increase in the shipments of naval stores and lumber from this port within the past year.

### OPPORTUNITIES FOR FACTORIES.

Advantages Offered by the Roanoke Navigation & Power Co. at Weldon, N. C.

Among the water-powers available in the State of North Carolina, those in the vicinity of Weldon, N. C., are considered by hydraulic engineers to be of great value. The bed of the Roanoke river at this point has a very marked descent which admits of the development of enough horse-power for a number of large industries. The quantity of the water is such that an ample supply is afforded during the year for manufacturing purposes generally. One of the companies controlling the power is the Roanoke Navigation & Water Power Co. Its canal extends from the head of navigation beyond the rapids of the river around this obstruction and contains locks by which boats of three and one-half feet draught can pass up and down the river a distance of thirty miles above the rapids for freight and passenger business. It may be stated here that some valuable timber lands are accessible only by this route.

The company at present has fully 2000 horse-power, but owing to the location this can be increased, according to conservative estimates, to a much greater amount. A corn mill of 2500 bushels' daily capacity, also a large cotton and an oil mill are in operation, depending upon this power. The fall varies from sixteen to thirty feet, and the canal is located in close proximity to two of the most important Southern railroad lines—the Seaboard Air Line and the Atlantic Coast Line—giving manufacturers depending upon it for power the best of railroad facilities, as well as a water route if desired. The country around Weldon is noted for the quality of the cotton raised and the wide area of production. An unlimited supply of the best material for a cotton mill can be obtained at the door, so to speak. Unusually good opportunities are afforded diversified industries at this point. For instance, wood for making potash can be obtained in abundance, while wool manufacturers seeking a site would doubtless be also interested in its advantages. A plant for manufacturing ice would have the monopoly of a territory of fifty miles around Weldon for its product, including the town of Weldon, which uses a large quantity of ice annually.

It has been proved beyond a doubt that the white labor in the South is equal to that employed in textile mills anywhere in the country. In the vicinity of the canal experienced hands can be obtained for a large or small mill at a low scale of wages. The climate is very favorable for cotton manufacturing especially, and the cost of living is very small, owing to the productiveness of the country in the vicinity.

The water-power is absolutely controlled at present by the company referred to, of which Mr. James W. Wilson, of Weldon, is president. Hon. Don Cameron, of Pennsylvania, is associated with Mr. Wilson, who will be pleased to respond to all inquiries and who will give prospectors and others desiring it every opportunity to see the advantages of the locality for themselves.

The loss by forest fires in February in North Carolina and South Carolina is estimated at \$700,000. The fire area was 3,000,000 acres.



## RAILROAD NEWS.

[A complete record of all new railroad building in the South will be found in the Construction Department.]

### Combination of Kentucky Lines.

It is understood that the recent purchase by Eastern capitalists of the Richmond, Nicholasville, Irvine & Beattyville Railroad, also of the Morristown & Cumberland Gap Railroad, has been made, with the idea of connecting these lines and consolidating them with what is known as the Beattyville & Cumberland Gap road. This road extends from Beattyville Junction to Beattyville, Ky., a distance of eight miles. At Beattyville Junction it connects with the Lexington & Eastern Railroad, extending from Lexington to Jackson, Ky., a distance of ninety four miles. By extending the Richmond, Nicholasville, Irvine & Beattyville Railroad to Beattyville, as originally intended, and by purchasing the Beattyville & Cumberland Gap line, the combination already referred to could be made. It would form an outlet for the mineral and timber resources in Eastern Kentucky, which are pronounced to be very extensive. In building the road, both Owsley and Clay counties, which are without a mile of railroad within their boundaries, would be provided with railroad facilities. The land between Beattyville and Cumberland Gap is owned principally by four syndicates. The National Coal & Iron Co., of Louisville, is one, while the others are the International Development Co., the New York Development Co. and the Eureka Land Co., the last three being Eastern syndicates.

As already stated in the Manufacturers' Record, the lines referred to have been purchased by Adolph Segal, of Philadelphia, who it is supposed represents an Eastern syndicate. According to a dispatch from Beattyville, a representative of the new owner, also a representative of the Union Trust Co. of New York, have been examining the country referred to, especially along the proposed extension to Beattyville.

### New Roads in Texas.

According to the annual report of the Texas railroad commission, twenty-four different companies have applied for permission to build new lines or to extend roads now in operation in the State during the past year. These companies represent about 713 miles of new lines, of which 302 miles have been completed. These figures do not include 195 miles of road built by companies who do not come within the provision of what is known as the stock and bond law. At present the only important road in the State in the hands of receivers is the Fort Worth & Denver City.

### Railroad Earnings in 1897.

In the last number of the Financial Chronicle a statement is given showing the gross and net earnings for the year 1897 of all the railroads in the United States from which returns could be obtained. The statement is a very comprehensive one and shows that the net earnings increased about \$36,000,000 or 11½ per cent. over 1896. This is a gratifying indication of the business development and the revival of trade generally during the past year. The railroads in the Southern States make an especially creditable showing. Thirty-nine companies in the South Atlantic and Gulf States, representing 19,888 miles of road, show an increase of \$3,100,000 or 10.61 per cent. This is a larger increase than any section except the Southwestern, Northwestern and Pacific. The South-

western group comprises 15,200 miles, showing an increase of \$2,350,000 or 12.68 per cent. The trunk lines show an increase of 10¼ per cent., and the lines in New England and the Middle States range from 7.66 per cent. to 7.92 per cent. In the list of trunk lines showing the largest increase Southern railroads are especially prominent. They include the Illinois Central, which shows an increase of \$1,321,000; the Norfolk & Western, \$871,500; the Southern, \$622,000, and the Kansas City, Pittsburg & Gulf, \$639,500 for but eleven months of the year.

### President of the Mobile & Ohio.

Announcement is made of the resignation of James C. Clarke, of the Mobile & Ohio Railroad, which took effect March 1. Mr. Clarke is one of the best-known railroad men in the country, and has been associated with several very important systems, beginning his work in Maryland. For several years he was general manager of the Illinois Central, and the present condition of the Mobile & Ohio is in a measure due to his ability and experience. Mr. E. L. Russell, vice-president of the company, who has been acting as president for some time past, has been elected as Mr. Clarke's successor.

### New Steel Rails.

According to a dispatch from Cincinnati, the Cincinnati, New Orleans & Texas Pacific Railroad Co. is to make extensive improvements to its line for a distance of about fifty-two miles. It is understood that the company has purchased about 7000 tons of 75-pound rails for this purpose. Additional rolling stock has also been ordered for the line, including 500 freight cars.

### Branch to Fort Smith.

The Kansas City, Pittsburg & Gulf Railroad will soon have trains running in the city of Fort Smith, Ark., making connections with railroads terminating at that point. General Manager Robert Gillham informs the Manufacturers' Record that the company is now constructing a branch line from Oak Lodge Station, on its road, a distance of about sixteen miles, to the city.

### Railroad Notes.

C. G. Vaughn has been appointed chief engineer for the New Orleans & North-eastern, with headquarters at Natchez.

J. A. Ridgley has been appointed soliciting agent for the Louisville & Nashville, with headquarters at New Orleans.

J. B. Thompson, freight agent for the Louisville & Nashville Railroad Co. at Montgomery, Ala., has resigned his position.

At the annual meeting of the Northern Central Railroad Co. the present officers were re-elected. Mr. Frank Thomson, president of the Pennsylvania Railroad, is president.

The sale of the Memphis & Charleston Railroad resulted in its purchase by the Southern Railway Co., and it will be in the future operated as a part of that system. The line was described in the last issue of the Manufacturers' Record.

The Gulf, Beaumont & Kansas City Railroad Co. has made the following appointments: James F. Weed, chief engineer; Frank Buford, assistant engineer; P. A. Work, right of way agent; George R. Wansborough, general freight agent; W. C. Averill, treasurer.

Strong opposition is developing in Louisiana against a proposition for the creation of a railroad commission by the constitutional convention, now in session.

## TEXTILES.

[A complete record of new textile enterprises in the South will be found in the Construction Department.]

Correspondence relating to textile matters, especially to the cotton-mill interests of the South, and items of news about new mills or enlargements, special contracts for goods, market conditions, etc., are invited by the Manufacturers' Record. We shall be glad to have such matter at all times, and also to have any general discussion relating to cotton matters.

### New England Manufacturers.

The sixty-fourth annual meeting of the New England Cotton Manufacturers' Association will be held at Boston in April. The transactions of the association at its semi-annual meeting at Philadelphia last October have been published in an attractive volume under the editorship of Mr. C. J. H. Woodbury, secretary. It contains the addresses at length made by President Russell W. Eaton; Hon. Chas. F. Warwick, mayor of Philadelphia; Mr. Theodore C. Search, president of the National Association of Manufacturers; Edward W. France, director of the Philadelphia Textile School; Stephen Greene, George Otis Draper, James A. Walsh, C. J. H. Woodbury, William P. Wilson, Arthur Parkinson, Frank P. Bennett, Vladimir P. Paley, Channing Whitaker, Charles Heber Clark, Edward W. Thomas, F. M. Messenger, D. D. Donovan, Henry G. Brinkerhoff and W. H. Stratton and accurate reports of the debates, which will be of permanent value.

### To Add 18,500 Spindles and 674 Looms

The contemplated doubling of the equipment of the Lynchburg Cotton Mill, at Lynchburg, Va., to which reference was made recently, will be considerably hastened by the management. The directors have decided, after a full discussion of the subject, to recommend to the stockholders that the enlargement of the mill be carried out at once, in accordance with plans prepared by C. R. Makepeace & Co., of Providence, R. I. The stockholders' annual meeting will be held March 26, and the recommendation of the directors will then be made. Mr. Max Guggenheimer, Jr., president of the Lynchburg Cotton Mill Co., informs the Manufacturers' Record that he has no doubt the plans will be carried out, and if so, the company will have a 40,000 spindle and 1400-loom mill when the new addition is completed. The present mill has 21,500 spindles and 726 looms in position.

### The Proposed Wiscosset Mills at Albemarle, N. C.

The stockholders of the newly incorporated Wiscosset Cotton Mills Co., of Albemarle, N. C., met at Concord, N. C., last week and elected directors for the first year as follows: Rev. W. P. White, of Philadelphia, Pa.; J. W. Cannon, of Concord, N. C.; J. S. Efrid, of Albemarle, N. C.; K. J. Davis, John McGill, Jr., R. S. Young, John C. Leslie, of Charlotte, N. C.; W. J. Swink, C. J. Webb and D. F. Cannon. Mr. J. W. Cannon was elected president, and Mr. John C. Leslie, secretary. The president stated that while only \$200,000 was the amount originally proposed as the capital stock, yet over \$220,700 had been subscribed, so he proposed to increase capital to \$250,000, which was assented to by those present. Arrangements will be made for an early commencement of work on this mill.

### New Underwear Mills.

A modern mill will be established at Barnesville, Ga., for the production of cotton ribbed underwear, sweaters, golf

hosiery and similar goods, and work on the erection of the necessary buildings will be commenced at once.

The plant will be established by the Eagle Underwear Co., which has been organized by the J. C. Collier Co., Mr. J. C. Collier being president, and Mr. W. M. Howard, secretary and general manager. The main building will be a structure 50x100 feet in dimension, with boiler and engine rooms, and a number of tenement-houses attached. Fifty operatives will be given employment at the start, and the mill will run, it is stated, day and night from the commencement of business, having already orders on hand that will take the entire product of the enterprise for twelve months.

### Carpet Mill at Gaffney, S. C.

A number of citizens of Gaffney, S. C., have associated themselves and organized a company for the purpose of establishing a large mill for the manufacture of carpets of a fine grade. They have organized the Gaffney Carpet Manufacturing Co., and Mr. J. E. Bierck (until now of Philadelphia, Pa.) has been elected president, treasurer and superintendent; H. F. Gaffney, secretary, and these two, with Messrs. H. D. Wheat, L. Baker, S. L. Cutting, J. G. Wardlaw, J. A. Carroll, W. C. Carpenter and F. G. Stacy, all of Gaffney, are the directors. The plans and specifications for the proposed mill buildings are being prepared and will soon be ready for the contractors, who are yet to be chosen.

### Profit of 21 Per Cent.

The annual meeting of the stockholders and officers of the Laurel Mills Manufacturing Co., of Marietta, Ga., was held on February 21. The reports of the managing officers showed that the company's business for the year just ended was more than satisfactory, the profit earned amounting to 21 per cent. A dividend of 8 per cent. was declared from these earnings, and the remainder was laid aside for special purposes. This company operates a woolen mill of 1000 spindles, 32 looms, three sets cards, etc., and produces jeans, tweeds and linseys, employing forty people and using a capital stock of \$50,000. Mr. S. Crowley was re-elected president, and H. R. McDermont, secretary-treasurer.

### The Textile Schools.

Those interested in the establishment of a textile school at the Georgia School of Technology have issued an address to cotton-mill owners and others asking their co-operation. It is believed that the equipment for the school will be supplied by manufacturers of textile machinery.

The purpose to have a first-class textile department at the North Carolina Agricultural and Mechanical College has by no means been relinquished. At the last meeting of the Watauga Club, of Raleigh, Messrs. W. E. Ashley, J. E. Pogue, C. B. Williams, Charles Pearson and George Allen were appointed a committee to prepare a statement on the subject to be presented to the club at its meeting on March 14.

### To Add 30,000 Spindles.

Extensive improvements and enlargements will be made to the mill of the Union Cotton Mills, of Union, S. C. The company recently applied for amendment to its charter, increasing capital stock from \$600,000 to \$1,100,000, and it is now announced by Mr. T. C. Duncan, president and treasurer of the company, in a letter to the Manufacturers' Record, that the equipment will be greatly increased. The present mill has in position within its walls 54,848 spindles and 1400 looms.

and this will be increased to 86,000 spindles and 2266 looms, making an additional equipment of 31,152 spindles and 866 looms. The product of the mill is wide goods.

#### To Double Equipment.

The directors of the Kincaid Manufacturing Co., of Griffin, Ga., have definitely decided as to the contemplated enlargements of their mill. The plant will be doubled. The equipment now in place consists of 6410 spindles and 210 looms, with power plant, etc. Mr. W. J. Kincaid is president of the company. Reports, which are as yet unauthenticated, also state that Mr. Kincaid, in connection with S. Grantland and other stockholders of the Kincaid Mill, will build an entirely new plant at Griffin, to cost \$150,000. Product proposed in this latter will be fine fancy cotton goods.

#### The Cotton Movement.

According to the report for February 25 of Secretary Henry G. Hester, of the New Orleans Cotton Exchange, the amount of cotton brought into sight during the season was 9,418,244 bales, an increase over last year of 1,867,165. Exports were 5,325,916, an increase of 700,344; Northern mill takings, 1,770,140, an increase of 435,329, and Southern mill takings, 676,974, an increase of 32,765. It is interesting to note that the cotton brought into sight in 178 days is 660,280 more bales than the total crop of 1896-97.

#### Textile Notes.

Mr. A. L. Miller, of Cumberland, Md., will establish a large knitting mill.

The Nantucket Cotton Mills, of Spray, N. C., have been incorporated with capital stock placed at \$250,000. The incorporators named are Messrs. Hal M. Worth and C. C. McAlister.

The Fairfield Cotton Mills, of Winnsboro, S. C., have been completed and commenced operations February 28. The equipment includes 180 looms for the production of sheetings. Mr. J. M. Beatty is secretary-treasurer of the company.

Messrs. Crossland & Everett, of Cheraw, S. C., near which city they own a good available water-power, have in contemplation the construction of a cotton mill. They will probably make definite announcements concerning the enterprise in the near future.

The citizens of Rome, Ga., have been considering a proposition for the erection of a 20,000-spindle cotton mill in their city. The Board of Trade has appointed a committee to make arrangements for meeting the terms of the offer. Mr. J. W. Rounsaville transmitted the proposition to the association.

The Manufacturers' Record has undertaken a vigorous and timely campaign among the cotton-mill owners and investors of New England for the purpose of setting before them the unrivalled advantages of the South for cotton manufacturing, and will, for the next three months, send the Manufacturers' Record regularly to the address of every individual of that class. Communities possessing advantages that should commend them to the cotton manufacturers of the East as favorable localities for investments of this character should hasten to secure due representation in the pages of the Manufacturers' Record.—Tallahassee Floridian.

The following foreign shipments of cottonseed products are reported from Galveston, Texas, during the past week: Cottonseed oilcake, 8909 sacks; cottonseed meal, 28,987 sacks, and cottonseed oil, 425 barrels, the whole being valued at \$60,674.

## COTTONSEED OIL.

This department is open for the full and free discussion of trade topics and practical questions, and contributions are invited from men who are identified with this industry. Items of news are always acceptable.

#### The Market for Cottonseed Products.

New York, N. Y., March 2.

The market for cotton oil presents no specially new feature, the outlook for higher prices being if anything more promising. A local authority says: "Holders are generally firm, looking for higher prices eventually, if not soon, as crude oil is still under 3 cents per pound and lard over 5½ cents in Chicago, which is a great inducement to make compound lard, which can be sold sufficiently below pure to increase the consumption of the former materially." Lard has slightly declined, owing to increased hog supplies at Chicago; the price is, however, sufficiently high to sustain prices of allied products. July lard, Chicago, is quoted at 5.22½ cents. Foreseeing an upward movement, packers are disposed to purchase freely of crude in anticipation of an increased compound lard demand. Tallow rules firm at this market unchanged in price, or at 3½ cents. Western refiners are buying valley crude in quantities at 16 to 16½ cents, and to 17 cents Atlantic coast points also, and 15½ cents Texas. Refined oils are slightly weaker and selling at a concession from former quotations, due in part to the temporary weakness in lard. The situation would appear to be, with a continuance of support from hog and beef fats, emphasized by the fact that the mills are pretty well sold up and seed supplies difficult to procure, a further advance in cotton-oil values is highly probable. Exports during the week have been quite active, but the demand for local consumption is at the moment languishing. Arrivals from the South are not excessive, decreasing production and firm views of producers being responsible. The following are closing prices: Crude, 20½ to 21 cents; crude, loose, f. o. b. mills, 16½ to 17½ cents; summer yellow, prime, 23 to 23½ cents; summer, off-grade, nominal; yellow butter grades, 27½ to 29 cents; white, 25 to 26 cents; winter yellow, 28 to 29 cents; salad oil, 29 to 30 cents, and soap stock, ½c. to ¾c. per pound. Cotton oil in Liverpool, England, is strong at 15s. 9d. for refined. Reports from Alexandria, Egypt, are to the effect that seed still continues so high that business is much restricted. A little prompt has been sold to London at £4 16s. 3d., also February shipment; March-April, £4 17s. 6d., hull, spot and passage.

Cake and Meal.—Latest advices from abroad indicate an increasing inquiry for mill feedstuffs. Ocean freights are favorable and we hear of several important shipments from Southern ports at substantially unchanged quotations. Meal to arrive is quoted at this market at \$18. Natural feedstuffs are higher in price.

#### Cottonseed-Oil Notes.

The Planters' Gin & Oil Co., of Sherman, Texas, was incorporated last week with capital stock of \$50,000. The incorporators are H. J. J. Thiessen and George and Thomas Christiansen.

The movement of cottonseed products in Texas is somewhat more decided and the market is steady at previous figures. Considerable cake and meal have been exported during the week. Prime crude oil, loose, is still quoted at 14½ to 15 cents f. o. b. mill, and prime summer yellow at 17 cents; prime cottonseed cake \$14.50 to \$15.25, and cottonseed meal \$14.00 to \$14.75. Linters, per pound, 2¼ to 2½ cents.

In New Orleans there was considerable activity in cottonseed products, especially for the foreign export trade. The market is very steady and the demand improving, with values unchanged. Receivers' prices are quoted as follows: Cottonseed, \$7 per ton of 2000 pounds net to the mills, no commission of any kind to be added; cottonseed meal, jobbing per carload at depot, 17 cents per short ton of 2000 pounds; for export, per long ton of 2240 pounds f. o. b., \$18.75 to \$19; oilcake for export, \$19 per long ton f. o. b.; crude cottonseed oil, at wholesale or for shipment, strictly prime oil, crude, 16 cents loose f. o. b. tanks at Mississippi valley points; in barrels, 18 to 18½ cents; refined cottonseed oil, prime in barrels, per gallon, at wholesale or for shipment, 21½ to 22 cents for export; cottonseed hulls delivered, per 100 pounds, according to location of mill, 12 to 17½ cents; linters, according to style and staple—A, 3½ cents; B, 3½ cents; C, 2½ to 3 cents. Among the foreign exports of cottonseed products last week from New Orleans the following shipments were reported: Steamship William Anning for Antwerp via Norfolk with 22,329 sacks of cottonseed meal, steamship Alesia for Marseilles via Genoa with 6150 barrels of cottonseed oil; steamship Norma took out 1000 tons of cottonseed cake; steamship Louisiana for Copenhagen with 4609 sacks of cottonseed cake and 650 barrels of cottonseed oil, and steamship Dartmoor for Rotterdam with 11,200 sacks of cotton seed meal and 2475 barrels of cottonseed oil.

#### USES OF THE PINE.

Valuable Products from Formerly Useless Refuse.

Wilmington, N. C., February 23.

Editor Manufacturers' Record:

The subject of the pine tree, its products and their uses, should engage the attention of the whole nation. There is a great opportunity in this line, both for capital and skill. My experience in the pinewood distilling business is that this country is yet in its infancy in this business. I have spent nearly a quarter of a century in wood distilling, and my suggestion is based upon practical experience all along this line and by a close study of the virgin pine forests. These are a very important part of the real wealth of the South, and a law to limit their destruction would be very wise. Otherwise, deplorable results will surely follow. My long experience in this business has proved to me that we have a great deal to learn as to the uses of the pine products. Within the last few years I have discovered that those parts of the pine trees which have hitherto been regarded as useless, such as the stumps and roots, are now as valuable as the best part of the tree.

Tar and turpentine are so well known to the world that we need not say much about them. But other articles are obtained which are more valuable, as spiritine oil, wood creosote oil, tar oil, pyroligneous acid, wood naphtha, wood spirit and pine balsam. These articles have now a ready market in this country, as well as in Europe. Parts of these products are used for preserving wood and iron. Other parts are used in the aniline color works, paint and varnish works and for many other purposes. Other parts are used for the drug trade and disinfecting trade. In fact, there is now a market for everything I extract from the pine tree, and if capital and skill are invested in this business, and proper mechanical and chemical facilities, it can be made one of the most important industries in the South. L. HANSON,

Manager Spiritine Chemical Co.

## PHOSPHATES.

#### Phosphate Markets.

Office Manufacturers' Record, Baltimore, Md., March 3.

In the local phosphate trade business shows no material improvement. The volume of transactions among brokers is light and the demand from local manufacturers and out-of-town parties is confined to small lots for immediate use. The movement at points of production continues of a moderate volume and the output is in some cases of a limited character, adapted to the demand ruling at the moment. The situation in South Carolina is considered more promising and river mining is being pushed rather more vigorously. Prices continue nominally steady, with a fair domestic and foreign inquiry. Shipments from Florida ports for February show an increase, and from Savannah and Brunswick the movement of Florida rock has been greater, the latter port shipping over 10,000 tons during the month. In the Tennessee phosphate field the development shows a decided increase and work among the miners for the past two months has been active. The shipments of phosphate rock from the Mount Pleasant field during January amounted to 11,240 tons, and for February the total shipments to domestic and foreign ports will likely be greater. The shipments by the Central Phosphate Co. (Cajot & Co.) to French ports through Pensacola are considerable, and if the Mount Pleasant rock becomes popular in Europe a large export trade is expected. In New York the market for phosphate freights continues fair, with rates nominally unchanged. The charters reported for the week were the following: British steamer Casas, 1422 tons, from Mobile to Belfast or Londonderry with phosphate rock at 15s., and the British steamer Thomas Melville, 1068 tons, from a Southern port to the United Kingdom or Continent with phosphate rock on private terms; British steamer Oaklands, 1252 tons, from Tampa to Ghent with phosphate at 17s. 6d., March 15; British steamer Laleham from Fernandina to Stettin with phosphate at 18s. 3d., March 5, and British steamer Schiehallion from Fernandina to Glasgow with phosphate at 15s., February-March.

#### Fertilizer Ingredients.

The market for ammoniates has advanced during the past ten days and stocks in the West have been well cleared up, with the exception of blood, which is in larger supply and not so strong as other material. There is a good demand in the Eastern markets, which, with the present very light killing in the West, keeps prices at their present basis. During the past few days there has been a good inquiry from the South, and sales in growing quantities have been made, showing an evidence of a better feeling than has existed in that section for the past thirty days. Messrs. Thomas H. White & Co., in their February circular, say: "The market for ammoniates in February was fairly active, and Western product of tankage for February, as well as for March shipment, is well sold up, prices closing 2½ to 5 cents per unit higher than at beginning of last month. High-grade blood, azotone, concentrated tankage and hoof meal are in better supply and easier."

The following table represents the prices current at this date:

Sulphate of ammonia (gas)	\$2 75 @	—
Nitrate of soda	1 75 @	1 80
Blood	1 70 @	—
Hoof meal	1 65 @	—
Azotone (boiled)	1 77½ @	—
Azotone (pork)	1 77½ @	—
Tankage (concentrated)	1 65 @	—
Tankage (9 and 20)	1 62½ @	10
Tankage (7 and 30)	15 00 @	15 50
Fish (dry)	20 00 @	—
Fish (cured)	19 00 @	—



**Phosphate and Fertilizer Notes.**

The steamships Lowlands and Ingram arrived at Fernandina, Fla., on the 25th ult. and will take on full cargoes of phosphate rock.

There is said to be more activity among the phosphate mines of Alachua county, Florida, this season than ever before for several years. The demand for phosphate rock is good and prices fair.

The board of directors of the Virginia-Carolina Chemical Co., of Richmond, Va., declared a dividend on the 23d ult. of 1 per cent. on the common stock of the company, payable on and after the 1st inst.

Mining operations at Fort White, Fla., are fairly active, large shipments of phosphate having gone forward during the month of February. Mr. J. W. Chiles has just opened a new phosphate mine at Fort White and is getting out large quantities of phosphate rock.

The shipments of phosphate rock from Mount Pleasant, Tenn., for the month of January last were 11,240 tons. The stock on hand February 1 was about 1400 tons. Shipments of Tennessee phosphate rock to Europe are increasing very materially. The steamship Cycle cleared last week from Pensacola, Fla., with nearly 3000 tons of phosphate for Certe, France.

The eighth annual meeting of the Southern Lumbermen's Manufacturers' Association was called to order in Memphis on the 15th ult. At the morning session but little business was transacted, the appointment of committees being the most important matter. The addresses of President White and Secretary McCutcheon were heard, which closed the morning session. At the afternoon session but little work was done, the members employing the time in informal discussion on grading. At the second day's session the principal business transacted was a decision empowering the board of directors to elect an insurance broker to place the insurance of the association and also the appointment of a grading inspector. The necessity of deep-water ports in the South was impressed upon the members of the association in an address from President J. J. White. It was decided that the meetings of the association shall be held hereafter in January and July. Mr. J. C. Enoch, of Fernwood, Miss., was chosen to fill the office of president for the ensuing year, after which the meeting adjourned.

Mr. Francis Hoag, of Philadelphia, spent several days in Macon, Ga., last week inspecting that section for the purpose of establishing a hardwood factory. He found a good supply of hardwood timber in close proximity to Macon and selected a site for his plant. The company he represents asks the citizens of Macon to take stock in the enterprise to the amount of \$10,000, a treasurer to be appointed from the stockholders of that city. The machinery of the company, which is now in successful operation at Florence, S. C., will be moved to Macon.

The New Orleans Progressive Union, formed to promote the industrial and commercial interests of the city, will elect a manager on March 9.

The Macon Chamber of Commerce will compile a prospectus of the city and its territory for circulation in the North, East and West.

The business men of Berkeley Springs, W. Va., have organized a board of trade, with A. M. Mendenhall as president.

The garbage plant of New Orleans has passed into the hands of the city, and will be operated by it hereafter.

**LUMBER.**

[A complete record of new mills and building operations in the South will be found in the Construction Department.]

**LUMBER MARKET REVIEWS.****Baltimore.**

Office Manufacturers' Record, Baltimore, Md., March 3.

The local lumber market has ruled quiet in most departments during the past week and the demand rather limited in volume. Receipts of wood products during the week have been fair and stocks of all kinds of lumber are about ample for the moderate inquiry. In yellow-pine air-dried lumber is a shade firmer and in some grades there is scarcity. Box-makers, yard men and planing mills are not buying in large amounts, being contented to merely make provision for immediate wants. There is a fair volume of business in kiln-dried North Carolina yellow pine, and the business in both domestic and foreign channels is good, while prices are firm, with a hardening tendency. White pine is steady, with a moderate demand and stocks ample for present wants. There is very little trade in cypress, and prices continue barely steady, with no urgent inquiry. The hardwood trade is moderately active, with some inquiry from local manufacturers and dealers, while from out-of-town parties there has been a better inquiry during the week. There has been a fair foreign business reported, and while the markets in Europe show no decided improvement, shipments from this side continue, although not so large as in the month of January.

**Charleston.**

[From our own Correspondent.]  
Charleston, S. C., February 28.

In local lumber circles there has been a fair volume of business during the week under review and at Georgetown and other milling sections there is considerable activity. The stocks of lumber at the various saw mills in this section are not allowed to accumulate and there is a good demand for the output as soon as it leaves the mill. In other wood products the movement is fairly active, notably in shingles and crossties. As to prices, they continue very steady, with no material change. The following figures were current at the close of business on Saturday: Merchantable lumber, \$14 to \$16 for city-sawed, \$12 to \$14 for railroad; square and sound, \$9 to \$13 for railroad, \$8 to \$11 for raft; dock timber, \$4.50 to \$6.50; shipping, \$8.50 to \$10.50. Shingles are in fair demand at \$4 to \$7 per 1000. Among the shipments during the week the following were reported: Schooner Bossie Whitman for New York with 370,000 feet of lumber, and schooner Joseph W. Hawthorne for Boston with 400,000 feet. The steamship George W. Clyde cleared for Boston with 70,000 feet of lumber among her cargo, and the steamship Comanche for New York with 17,500 feet. The total shipments of lumber and other wood products from this port since September 1, 1897, amounts to 22,414,495 feet coastwise and 569,000 feet foreign, making a total of 22,983,495 feet, against 28,864,764 feet for the corresponding period last year. Among the charters reported in New York last week were the following: Schooner E. A. Gaskell, 323 tons, from Charleston to New York, two trips, with lumber on private terms, and schooner D. K. Baker, 493 tons, from Charleston to New York with 4000 22-foot crossties, basis 15½ cents, balance lumber at \$4.75.

**Savannah.**

[From our own Correspondent.]  
Savannah, Ga., February 28.

Business in nearly all departments of the lumber industry at this port continues fairly active, with a good demand for the better grades of lumber. At all milling sections adjacent to this city, and, indeed, throughout the State, stocks at mills are generally light and in some cases not well assorted. Manufacturers, it is said, complain of low prices, and it is likely that in the near future the price-list will be advanced. The crosstie industry is showing up well and shipments from this and nearby ports of Georgia are active. During the past week over 3,500,000 feet of lumber left this port, being distributed as follows: Schooners Jennie S. Hall with 327,522 feet of lumber and Carrie T. Belano with 448,428 feet, both for Boston; schooners Aaron Rippard with 378,352 feet of lumber and Annie T. Bailey with 292,064 feet, both for Philadelphia; schooners Stephen G. Lound with 413,000 feet of lumber and James G. Beecher with 638,140 feet of crossties, both for New York. Steamers for New York took out 310,000 feet of lumber, and Boston steamers 10,000 feet. The British steamship Cacoma, for Louisburg, N. S., cleared with 641,113 feet of pitch-pine lumber. Lumber and timber freights are firm at ruling rates. The rates from this and nearby ports of Georgia are quoted at \$4 to \$4.50 for a range including Baltimore and Portland, Me. Among the charters reported last week in New York were the following: Schooner Charmer, 341 tons, from Savannah to Philadelphia with lumber on private terms; schooner Dora Mathews, 373 tons, from Brunswick to New York with lumber, ties, etc., basis \$4.50, and schooner Harry B. Ritter from Savannah to Philadelphia with lumber at \$4.50.

**Mobile.**

[From our own Correspondent.]  
Mobile, Ala., February 28.

There was quite an active movement last week in lumber and timber and the demand shows considerable expansion in volume, especially for lumber for Cuba. Values in both sawn and hewn timber continue very steady without change. Sawn timber when placed upon the market will bring 10 to 10¼ cents per cubic foot, basis 40-foot, and hewn timber is quoted at 12½ cents, basis of 100 cubic feet, average B1 good. Contracts are made at 12 to 12½ cents per cubic foot. Hewn oak is dull at 14 to 16 cents per cubic foot for first-class, and hewn poplar is in limited demand at 12 cents per cubic foot for large average girth. The movement in lumber continues quite active and mills both here and at outlying points are well supplied with orders. During the past week the following clearances were reported: Bark Revolving Light for River Mersey, England, with 10,100 cubic feet of hewn timber, 63,079 cubic feet of sawn timber and 80,411 superficial feet of lumber; bark Albatross for Dundee, Scotland, with 14,011 cubic feet of sawn timber, 10,433 cubic feet of hewn timber and 284,000 feet of lumber; the bark Specialist for Liverpool, England, cleared with 26,971 feet of lumber; steamer Harold for Manzanilla, Cuba, with 300,000 feet of lumber, and schooner Helen E. Kenney for Havana, Cuba, with 295,000 feet. The total shipments of lumber from this port since September 1, 1897, amount to 25,920,427 feet, against 35,622,819 feet last year. The shipments of hewn timber during the same period amount to 368,548 cubic feet, against 223,697 cubic feet last year. An Italian bark was chartered in New York last week to load at this port with lumber for Buenos Ayres at \$12.

**Lumber Notes.**

John F. Lang, of Smithfield, N. C., is endeavoring to find a market for spoke and rim timber; also dogwood blocks for handles.

On the 21st ult. one of the three dry-kilns of Lock, Moore & Co.'s lumber mills on the Calcasieu river, near Lake Charles, La., was destroyed by fire. The loss is estimated at \$2500; fully covered by insurance.

Messrs. Morgan & Griner, of Guyton, Ga., are about to remove the saw mill in Bryan county, known as the Kinsey Mill, to a point on the Ogeechee river, near Meldrum, on the Georgia & Alabama Railroad.

The Tygart's Valley Manufacturing Co., of Morganton, W. Va., which has been engaged for a number of years in the manufacture of woodwork of all kinds, sold its plant on the 15th inst. to W. S. Montgomery, of Mannington, W. Va., for \$8000.

Messrs. Miller & Allen, of Fort White, Fla., have secured the contract from the South Florida Railroad Co. to cut 2,000,000 crossties during the present year. This firm has extended the J. W. Pitts railroad five miles in Alachua county in order to obtain more timber.

The planing mill of the A. M. Stevens Lumber Co., of Dyersburg, Tenn., was destroyed by fire on the 24th ult. In addition to the loss of the Stevens Company's plant, the stove factory of W. Calluet and a number of dwelling-houses were consumed. The loss is conservatively estimated at \$200,000.

The Southern Cypress Lumber Association held its annual meeting in New Orleans last week. The meeting was attended by representatives of fourteen out of eighteen mills in the State. The outlook for business was reported to be very promising, all mills running at their full capacity, with numerous orders and inquiries. The officers elected by the association were: Senator Fred Wilbert, of Plaquemine, president; John Dilbert, of the Litcher & Moore Co., of Litcher, vice-president; C. M. Burton, of the New Orleans Cypress Lumber Co., treasurer, and Charles McDowell, secretary.

The Manufacturers' Record is in receipt of the circular of the Monarch Lumber Co., organized last week at St. Louis, Mo., with headquarters in that city. The company is composed of the following mills: The Freeman Lumber Co., Millville, Ark.; A. J. Neimeyer Lumber Co., Waldo, Ark.; Saginaw Lumber Co., Saginaw, Ark., and Bluff City Lumber Co., Pine Bluff, Ark., with a combined capacity of 70,000,000 feet. The company has in stock 20,000,000 feet of dry, well-assorted stock for immediate shipment. The officers of the company are A. J. Neimeyer, president; M. C. Smith, vice-president, and J. F. Rutherford, secretary and treasurer.

Nearly all the prominent lumbermen of the State of Georgia were in secret session at Macon on the 21st ult. Among those present were Martin Amorous, of Pineopolis; D. C. Bacon, of Baconton; S. I. Hill, of Cordele; H. P. Smith, of Savannah; A. G. Smart, of Atlanta; T. B. Cabaniss, of Forsyth, and J. W. Bivins and Joseph E. Bivins, of Cordele. The object of the meeting, it is supposed, was to advance the price of lumber, but nothing definite could be ascertained. It is said that the demand for lumber is greater than the supply, while prices show a narrow margin of profit. The railroad question was discussed, and the recent settlement in regard to loading cars has resulted favorably to the lumbermen of the State.

## MECHANICAL.

### Combing Machine.

This new patent combining machine, for combing cotton of any staple, manufactured by the Mason Machine Works, of Taunton, Mass., has points of excellence that commend it in a very strong manner to manufacturers who desire to obtain satisfactory results.

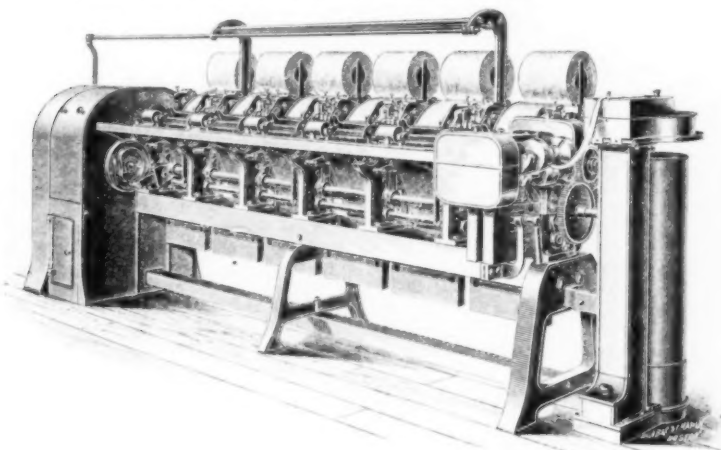
The advantages of this comb consist chiefly in the greater rigidity and strength of the driving parts, and the consequent possibility of closer settings, resulting in the production of better work.

The means adopted of obtaining the extra rigidity and strength serve also to

As to details of superior construction and convenience, the interchangeability of all parts of the half-laps and combstrips, together with accuracy of construction in all the parts which co-operate with them, helps materially to secure the best results possible.

By the position of the dial plate, convenience of setting is attained, together with easy inspection at all times, and accessibility to all the setting points has been carefully provided for.

The brushes are of the most approved kind and arrangement, and are so constructed as to require a minimum amount of care, and have such an adjustment as to secure the maximum amount of wear from the bristles.



NEW PATENT COMBING MACHINE.

facilitate the encasing of the driving gearing, which, in obviating the frequent stoppage for cleaning, increases the productive capacity of the machine.

These advantages, taken with the best material, appliances and workmanship obtainable, warrant the claim that this comb has extraordinary excellence, and this claim is fully borne out by mill tests.

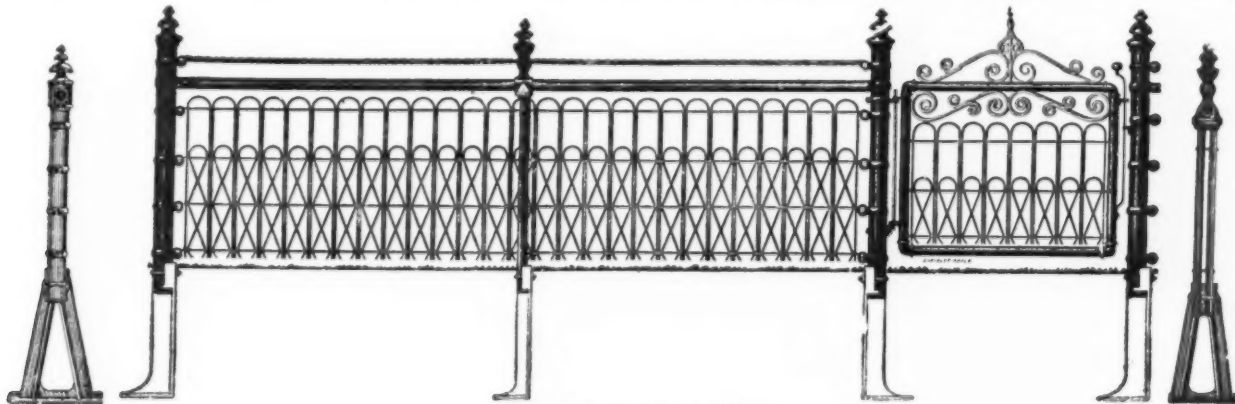
Six is the usual number of heads to a comb, but the company makes them also with four or eight heads. On longer machines the builder prefers to place the nipping and detaching cams in the middle of the beam, thus obviating any torsion which might occur in the shafts driven by those cams.

The builder claims that in cleanliness and safety of operation this machine surpasses by far any comb heretofore built. Suitable sliver lap machines, to be used in connection with the combers, are also produced.

The Mason Machine Works also, as is well known, builds the latest improved revolving flat cards, spinning frames, drawing frames, mules and looms in great variety.

### New "Ideal" Fence.

The new "Ideal" fence, with spread anchor base and double-line posts, is one of the most durable fences on the market, and in appearance it is highly orna-



THE NEW "IDEAL" FENCE.

These machines use laps of any usual width, cotton of any staple, and can be furnished with the Mason patent full-cam stop motion.

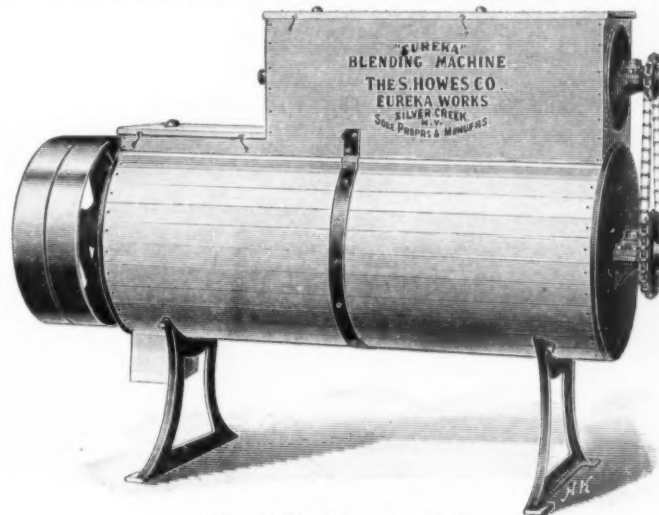
Heretofore the combers generally used have been constructed with the driving mechanism upon isolated supports, secured to the main beam or girder, running lengthwise of the frame; but, by this improved patent construction, the driving mechanism is supported upon a very rigid and strongly built box frame, which construction has eliminated the yielding and springing tendencies frequently observed in other combers. This rigidity permits closer and safer setting and consequently better work.

mental, as will readily be seen from the accompanying illustration. The picket is about one-fourth-inch diameter and of heavy twisted galvanized steel wire that will not rust, and close enough to turn small animals. The posts are of tubular steel and have a heavy spread base of cast iron to prevent their being lifted by the frost. The line post is double and the picket passes through the center, which brings the rail and picket in exact line, and the fence appears the same on both sides. The corner, end and gate posts are provided with malleable ratchets, by which each horizontal wire is tightened, and the fence graded to suit the ground. The rail is tubular steel one and three-

eighths inches in diameter and very stiff. It is continuous the entire length of each section of fence, and being firmly keyed to each post, forms a perfect brace. Galvanized braided wire above rail. This fence is either 30, 36, 42 or 48 inches high. Full instructions for setting go with each order, and any carpenter or mechanic can set the fence. For any further particulars or estimates address the manufacturers, Messrs. Ellis & Helfenberger, of Indianapolis, Ind.

### The "Eureka" Blender.

This machine is specially constructed for sifting and blending all kinds of pow-



THE "EUREKA" BLENDER.

dered drugs, colors, chemicals, cements, foods, sugar and similar powders. The material is fed into the feed hopper by means of a conveyor when feeders are used, from thence it passes to the sieve, where it is acted upon by a brush which reduces any lumps contained in the powder, cements, etc., and any foreign substance too large to pass through the sieve. It is conveyed by the brush to the outlet spout at the end of the machine while it is in motion, which contains an agitator of special design, is adapted for thoroughly blending any number of ingredients conveyed to it, if powdered, and no portion can escape being efficiently blended. All parts of this machine are

### Time for Good People to Act.

[Dallas Times-Herald.]

The Baltimore Manufacturers' Record, which loses no opportunity to disclose to the country and the world the advantages of the Southern States in all those resources and opportunities that make a section powerful and prosperous, not long since freely gave some very excellent advice to the people of the South touching the expediency, yea, the necessity, for the most scrupulous regard for their obligations, corporate as well as personal. For its outspoken and well-meant suggestions and urgings it was severely and unnecessarily and illogically censured by a por-

tion of the press and some captious, impulsive individuals.

But the truth remains that one's best friends are those who frankly tell them of their failings or warn them against hopeless ways, even while it is working otherwise for their best interests. The Times-Herald has pursued the same course, and therefore strenuously insisted on its position against virtual repudiation of certain Texas county bonds when some constitutional amendments were presented to the people. And its course met most emphatic approval by an overwhelming defeat of the proposed amendment. And recently our Supreme Court has decided the validity of certain con-

tested bonds, and of which we reported in full. All this will make, has already made, to our unquestioned interest, as the newspaper comments by scores have shown. The Manufacturers' Record quotes from the Durham (N. C.) Sun some remarks on this subject of general interest. \* \* \* These are evidences of a sound, healthy opinion, and they are at the same time representative of true Southern sentiment. The demagogues will learn, are learning, that it will not pay to teach the people not to pay honest debts, whether these be due by corporations or by individuals.

Subscribe to the Manufacturers' Record.



# CONSTRUCTION DEPARTMENT.

**THE MANUFACTURERS' RECORD** seeks to verify every item reported in its Construction Department by a full investigation and complete correspondence with everyone interested. But it is often impossible to do this before the item must be printed, or else lose its value as news. In such cases the statements are always made as "rumored" or "reported," and not as positive items of news. If our readers will note these points they will see the necessity of the discrimination, and they will avoid accepting as a certainty matters that we explicitly state are "reports" or "rumors" only. We are always glad to have our attention called to any errors that may occur.

\*Means machinery, proposals or supplies are wanted, particulars of which will be found under head of "Machinery Wanted."

In correspondence relating to matters reported in this paper, it will be of advantage to all concerned if it is stated that the information was gained from the Manufacturers' Record.

It often occurs that the organization of a new company in any town is not known by the postmaster, and hence letters addressed to the company are returned marked "not known." The Manufacturers' Record reports the first organization of all companies, and our readers, in seeking to get into communication with them, should be very careful in deciding how to address them, and even then they must expect the return of some letters, because of the lack of knowledge on the part of postmasters of all new companies. Criticisms and complaints are invited, as they will the better enable us to guard against errors.

## ALABAMA.

Alabama Coal Mines.—A company has been organized for the development of coal mines in Alabama. J. N. Andrews, 13 South Palafox street, Pensacola, Fla., can give information.

Alexander City—Gold Mine.—Dr. H. J. Cameron and associates will develop the Bonner-Terrill gold mine and put in sluices, concentrators, etc.

Alexander City—Gold Mining, etc.—A new company will continue the development of the "Mascotte" gold mine, near Alexander City; a 10-stamp mill is now ready for operation, and a chlorination or cyanide plant will be put in also; Dr. H. J. Cameron, manager.

Athens—Telephone System.—The Athens Telephone Co. is preparing to increase and enlarge its system, make general improvements, etc.

Athens—Cotton Mill.—A company is being formed to establish a cotton-thread mill; names of interested parties will be announced later.

Ensley—Machine Shops, Planing Mills, Town Development, etc.—The Ensley Co., J. W. Myrner, of Thomas, Ala., president, has purchased a tract of 230 acres of land at Ensley which it will develop as a manufacturing suburb of Birmingham (six miles distant). The company will arrange for the erection of \$20,000 machine shops, iron foundry, \$25,000 brick works, planing mill, fifty dwellings, etc.

Hartselle—Brick Works.—B. M. Nelson and A. W. Sharpley will form the Tennessee River Bottom Brick Co. and establish works of 25,000 bricks daily capacity.

Russellville—Iron Mines.—J. D. Lacy, of New Orleans, and associates have leased and will develop iron-ore lands near Russellville.

Sheffield—Machine Works.—The Sheffield Boiler Works, D. W. Burns, proprietor, contemplates engaging in the manufacture of steel dumping cars, constructed under a new patent.

## ARKANSAS.

Clarendon—Stave Factory.—Capt. P. C. Ewin is corresponding with manufacturers

relative to the establishment of a stave factory.

Colt—Mercantile.—Incorporated: The Colt Mercantile Co., capital stock \$3000, by Lennie J. Block, L. N. Block, R. G. Oliver and Mal Oliver.

Malvern—Woodenware Factory.—Incorporated: The Owosso Manufacturing Co., capital stock \$25,000, by Alvin M. Bentley and Louis Flickmyer, of Owosso, Mich., and Alfred A. Starring, of Silver Creek, N. Y. The corporation will manufacture screen goods and woodenware. Address Alvin M. Bentley, president, Owosso, Mich.

Pine Bluff—Mercantile.—Chartered: The Red Store Dry Goods Co., capital stock \$20,000, by H. Altheimer and others.

Pine Bluff—Lumber Mills.—Incorporated: The Monarch Lumber Co., capital stock \$10,000, by John F. Rutherford, M. C. Smith, A. J. Neimeyer and Charles R. Jones.

Pine Bluff—Cigar Company.—The Pine Bluff Cigar & News Co. has been incorporated, with capital stock of \$5000, and Geo. H. Adams, president; Thomas Phillips, vice-president; E. T. Rosenberg, secretary and treasurer.

## FLORIDA.

Jacksonville—Ice Factory.—F. G. Russell will erect an ice factory.

Jacksonville—Ice Factory.—The Commercial Ice & Produce Co. has been organized under the laws of New Jersey, with a capital stock of \$100,000, for the purpose of erecting in Jacksonville an ice factory of thirty tons daily capacity; George N. White, vice-president and general manager. The members of the company also have the intention of erecting other ice factories throughout the South.

Key West—Cigar Factory.—The Teodoro Perez Co. has been incorporated, with capital stock of \$25,000, to buy and sell tobacco, manufacture cigars, etc. The incorporators are Teodoro Perez, Juan Ebra and Louis Somellian, Jr.

Pensacola—Fish Company.—The Geo. W. Arras Fish Co. has been incorporated, capital stock \$5000, to deal in fish, ship in refrigerators, etc.

## GEORGIA.

Atlanta—Glass Works.—Thomas F. Scott is corresponding with Pittsburg (Pa.) parties who contemplate establishing glass works in Atlanta.

Augusta—Flour Mill, etc.—The Clark Milling Co. has been incorporated, with capital stock of \$40,000 and privilege of increasing to \$100,000, by Jules Rival, Wm. H. Dunbar, George R. Lombard, George C. Chambers and A. K. Clark. The company will erect a mill of 500 barrels daily capacity for meal and flour. Address A. K. Clark.\*

Barnesville—Knitting Mill.—The Eagle Underwear Co. has been organized, with J. C. Collier, president, and W. M. Howard, secretary-manager, and will build a plant for the manufacture of underwear, hosiery, sweaters, etc., to employ fifty operatives.

Elberton—Water Works.—The city has contracted, as previously reported, for the construction of water works, the bid of Geo. J. Baldwin being accepted. This contract may or may not become valid. Address Geo. J. Baldwin, 39 Cotton Exchange Building, New York city.

Gainesville—Telephone System.—Col. H. P. Farrow has applied for county permission to establish his proposed telephone system.

Gainesville—Electric-light Plant.—A company is being formed to erect an electric-light plant, as recently noted. Charles S. Webb can give information.\*

Griffin—Cotton Mill.—It is reported that W. J. Kincaid, S. Grantland and others will build a \$150,000 cotton mill.

Macon—Woodworking Plant.—Francis Hoag, of Florence, S. C., is said to be negotiating for the removal of his \$75,000 hardwood plant to Macon.

Macon—Broom Factory.—John M. Brown has established a broom factory at 406 Cotton avenue.

Rome—Cotton Mill.—A proposition has been made for the erection of a 20,000-spindle cotton mill, and the citizens will endeavor at once to meet the terms of it. J. W. Rounsaville can give information.

Savannah—Paving Improvements.—The city has awarded contract to the Southern Asphalt Co., of Baltimore, Md., for the paving

of certain streets; the amount to be expended will be about \$50,000.

## KENTUCKY.

Ashland—Brick Works.—The Ashland Fire Brick Co. will rebuild its burned section of plant, erecting a new building 112x130 feet of brick, with metal roof; most of the machinery has been purchased.\*

Louisville—Refrigerating Plant.—Laufer's Brewery will add five-ton refrigerating plant to its brewery.

Louisville—Wagon Works.—H. Walters has prepared plans for an addition to the Kentucky Wagon Works 82x40—240x40.

Louisville—Iron Works.—The Weir-Reeder Sheet Iron Co. has been incorporated to buy, sell and manufacture sheet iron. The capital stock is \$10,000, and William Weir is president; Joseph F. Reeder, secretary and treasurer, and James A. Starr, general manager.

Louisville—Stove Foundry.—Bridgeford & Co., noted last week as to build a new foundry, has reorganized and elected P. Galt Miller, president; A. B. W. Allen, treasurer; W. I. Gardener, secretary, and George Ogle, general manager.\*

Louisville—Tobacco Factory.—The American Tobacco Co. has obtained permit for the erection of the factory previously noted; plant is to be a two-story house and cost \$21,000.

Louisville—Tobacco Factory.—The National Tobacco Co. has obtained permit for the erection of the factory recently decided upon; plant to be five stories high and cost \$55,000.

Nebo—Telephone Line.—Dr. Ferguson is arranging for the extension of telephone line from Nebo to Silent Run.

Versailles—Telephone System.—The proposed telephone company has organized as the Versailles Telephone Co., with capital stock of \$5000, and will establish system, etc.; B. B. Smith, president; Charles S. Powell (of Richmond, Ky.), vice-president, and W. R. Proctor, secretary-treasurer.

## LOUISIANA.

Franklin—Ice Factory.—George M. Brown, of Franklin, contemplates the erection of a ten-ton ice factory, but as yet has not chosen location.

New Orleans—Oil Refinery, Cottonseed Products, etc.—The Acme Refining & Manufacturing Co., Limited, has been incorporated, with capital stock of \$10,000, for the refining of cottonseed oil, manufacture of soap, cottonseed products generally, etc. Gus Durel, president; N. A. Puech, vice-president, and P. Poursine, secretary-treasurer.

## MARYLAND.

Baltimore—Glass Works.—The Henrietta Window Glass Co. (incorporated several months ago and fully reported at the time) has commenced work on the buildings for its plant. Three frame structures, stone foundations, will be erected; blowhouse to be 80x110 feet; main building to be flattening-house and cutting-room, 80x110 feet, with "L" extension of 50 feet; warehouse 50x35 feet; 18-blower improved Higgins tank to be installed; capacity to be 7000 boxes of 50 square feet each per month; location of plant, in Baltimore county, near Halethorpe; Nicholas Weller, president.

Baltimore—Coal Company.—The Monumental Coal Co. has been incorporated by Henry G. Fledderman, Alexius J. Granger, John P. Horsey, Samuel H. Adams, Jr., and James H. Fledderman, with a capital stock of \$10,000.

Baltimore—Drug Company.—The Becker Drug Co. has been incorporated, with a capital stock of \$10,000, by John A. Becker, Louis M. J. Becker, August Wehr, Martin Meyerdirck, Edward J. Gallagher and Chas. P. Coady.

Cumberland—Flour Mill.—James Bruce will build a flour mill. Address in care of J. H. Holzshu.

Cumberland—Knitting Mill and Laundry. A. L. Miller will establish a knitting mill and steam laundry at Bedford and Mill streets.

Cumberland—Bridge.—The proposed bridge, heretofore referred to, will be constructed jointly by the city and the West Virginia Railroad; structure to be of iron and stone, have three spans, two of fifty feet each and one of sixty feet. For further particulars address W. G. Mellinger, mayor.

Hagerstown—Electric Plant.—The city contemplates the issuance of \$60,000 in bonds for the erection of an electric plant to supply light, heat and power. Address the mayor.

Van Bibber—Creamery.—Jno. Silver Hughes, Clifford C. Barnes, Solomon A. Hoblitzell, Jr., Philip H. Close and Willard G. Rouse have incorporated the Van Bibber Manufacturing Co. for the operation of creamery and skimming stations at Van Bibber and Harford Furnace. The capital stock is \$10,000.

Washington—Cycle Company.—Chartered: The Century Cycle Co., to buy, sell and manufacture bicycles; capital stock \$25,000. C. J. Gillette is president.

Washington, D. C.—Floriculture.—Incorporated: The J. H. Small & Son Co., for the propagation and cultivation of flowers; capital stock is \$31,500.

Westernport—Coal Mine.—Gorman, Jenkins & Co. will open a new coal vein near Westernport.

## MISSISSIPPI.

Crystal Springs—Water Works.—The construction of water works is talked. Address town clerk.

Ripley—Ice Factory.—A \$5000 stock company will be organized for the purpose of erecting a five-ton ice factory; names of those interested will be announced later.

## MISSOURI.

Galena—Lead and Zinc Mines.—Austin Corbin, Jr., of New York city, and associates have purchased the Amsden lead and zinc tract at Galena for \$150,000.

Kansas City—Clothing Factory.—Burnham, Hanna, Munger & Co. will erect a new clothing factory at a cost of \$130,000; 600 machines will be purchased.

St. Joseph—Poultry Company.—Incorporated: The St. Joseph Poultry & Egg Co., capital stock \$10,000, by L. F. Swift, O. W. Walters, H. W. Wood and others.

St. Joseph—Orchards.—The Kenmore Orchard Co., capital stock \$4000, has been incorporated by E. Hughes, L. D. Arnold, T. J. Berry and others.

St. Louis—Real Estate.—The Brokaw Real Estate Co., capital stock \$20,000, has been incorporated by A. V. L. Brokaw, J. C. Brokaw, G. W. and F. W. Baumhoff.

St. Louis.—Incorporated: The Union Staple Seam Re-enforcing Co., capital stock \$10,000, by W. B. Versteeg, W. C. Butler, Jr., Gilbert Hay, W. C. Witherspoon and F. H. Sachleben.

St. Louis—Pattern Company.—Incorporated: The Remmers Pattern Co., capital stock \$5000, by T. W. Remmers, H. B. Remmers and M. D. Remmers.

Webster Groves—Water Works.—The city will vote on a proposition to issue \$25,000 in bonds for the construction of a system of water works. Address the mayor.

## NORTH CAROLINA.

Albemarle—Cotton Mill.—The Wiscasset Mills Co., recently noted as incorporated, has organized with J. W. Cannon, of Concord, N. C., president; John C. Leslie, of Charlotte, N. C., secretary. Capital stock subscribed is about \$250,000. The erection of the mill will commence soon.

Asheville—Mercantile.—The Asheville Hardware Co., capital stock \$15,000, has been incorporated by A. R. Ellerson, of Richmond, Va., and Claybrook James and R. A. Long, of Asheville, to conduct a wholesale and retail hardware business.

Brevard—Road Construction.—The Transylvania Turnpike Co. has been incorporated, with capital stock of \$5000, to construct a public highway, etc.; incorporators, J. F. Hays, E. C. Wilson, J. C. Cooper and W. L. Hume.

Gibsonville—Mercantile.—The Gibsonville Store Co. has been incorporated with a capital stock of \$5000 by J. A. Davidson and A. C. Boon, of Gibsonville; M. A. Glazebrook, of Richmond, and J. B. Stroud, of Greensboro.

Gibsonville—Mercantile.—J. A. Davidson and A. C. Boon, of Gibsonville; M. A. Glazebrook, of Richmond, and J. B. Stroud, of Greensboro, have incorporated the Gibsonville Store Co., with capital limited to \$20,000.

Mount Olive—Lighting Plant.—Rumors refer to a proposed lighting plant, probably electric, and J. D. Williams is said to be interested.

**Murphy—Mining Company.**—The Irwin-date Mining Co. has been incorporated, with capital stock of \$36,000 and power to increase to \$1,000,000, for the purpose of developing mines of all kinds in Cherokee county. The incorporators are M. Ramsey, A. P. Stuart, H. C. Gibbs, E. Piarrins, Ruleman Miller and E. S. Jaques, of New York city. Address the company at Murphy.

**Reidsville—Water Works.**—A company has been organized for the purpose of contracting for the construction of water-works system; standpipe to be built. C. N. Evans can be addressed.\*

**Reidsville—Water Works and Sewerage.**—The construction of sewerage and water system is being considered; R. T. Williams, mayor.

**Roanoke Rapids—Dyehouse.**—The Roanoke Mills Co. will build a dyehouse.

**Smithfield—Tobacco Prizehouses, etc.**—The Planters' Tobacco Warehouse Co. has been organized and incorporated and will erect tobacco warehouses and prizehouses.

**Smithfield—Tobacco Company.**—The Smithfield Tobacco Warehouse Co., with a capital stock of \$25,000, to conduct the usual warehouse buying and selling of tobacco. The incorporators are Joseph H. Woodall, Jas. H. Pon, E. J. Holt, E. W. Pon, S. S. Holt, R. O. Catter, H. Cohen and others.

**Spray—Cotton Mill.**—Hal M. Worth and C. C. McAllister have incorporated the Nantucket Cotton Mills, with capital stock of \$250,000.

**Troy—Cotton Mill.**—S. J. Smitherman, Mrs. T. J. Smitherman, Miss Minnie Smitherman, Miss Ina L. Smitherman and A. W. E. Chapel have incorporated the Smitherman Cotton Mills, with a capital stock of \$50,000, to manufacture cotton goods, etc.

**Wilmington—Water-supply Increase.**—The Clarendon Water Works Co. will contract for the sinking of an artesian well.

**Winston-Salem—Stave Factory.**—H. B. Evans, of Indiana, contemplates the establishment of a stave factory in Winston-Salem. Address care of G. W. Hinshaw.

#### SOUTH CAROLINA.

**Charleston—Hame Factory.**—A company has been formed, with capital stock of \$12,000, for the purpose of establishing a factory to produce patent hames, invented by J. N. Narsch, of Romevorte, W. Va.

**Charleston—City Hall.**—The city council contemplates the appropriation of \$25,000 for the purpose of reconstructing the city hall. Address the mayor.

**Charleston—Light and Water Plants.**—The Charleston Light & Water Co. has been incorporated, with a capital stock of \$500,000, privilege of increasing to \$3,000,000, by Samuel Lapham, Charles R. Valk, W. H. Welch, A. G. Rhett, H. F. Bremer, George I. Cunningham and others. Address Mr. Cunningham.

**Cheraw—Cotton Mill.**—Crossland & Everett contemplate the erection of a cotton mill.

**Fountain—Cotton Mill.**—A company has been organized to establish a 3000-spindle cotton mill; names of interested parties will be announced in a few days.

**Gaffney—Carpet Mill.**—The carpet company recently noted has organized as the Gaffney Carpet Manufacturing Co. and is now having plans prepared for the buildings for its proposed carpet mill. J. E. Bierck (until now of Philadelphia, Pa.), president, treasurer and superintendent; H. F. Gaffney, secretary. Address the last named.

**Spartanburg—Sewerage System.**—The city council has engaged L. D. Ludwig, of Winston, N. C., to make surveys and prepare preliminary plans and specifications for a municipal sewerage system.

**Union—Cotton Mill.**—The Union Cotton Mills, which recently increased capital stock from \$200,000 to \$1,000,000, has arranged for an increase of its mill's equipment, erection of new buildings, etc.; equipment now in place is 54,848 spindles and 1400 looms, to which 31,152 spindles and 800 looms will be added; T. C. Duncan, president and treasurer.

**Winnabow—Telephone System.**—A company is being organized to establish a telephone system. J. M. Beatty can be addressed.

**Winnabow—Flour Mill.**—It is stated that the Fairfield Oil & Fertilizer Co. contemplates the erection of a flour mill.

**Winnabow—Electric-light Plant.**—The Winnabow Electric Light & Power Co., heretofore referred to, has fully organized and will erect a plant of 750 incandescent lamps, costing about \$3000. A water-works system will probably be constructed later on. R. G. Andrews is president.\*

#### TENNESSEE.

**Chattanooga—Baking-powder Factory.**—N. H. Talbott & Co. will increase facilities for manufacturing baking powder.

**Chattanooga—Grain Elevator.**—The Mountain City Mill Co. will build a six-story grain elevator.

**Chattanooga—Cannery.**—C. C. Shelton has organized a company to establish a cannery, and a building is now being altered to accommodate a plant; machinery will be put in to employ 100 hands.\*

**Chattanooga—Refrigerator Works.**—The Loomis & Hart Manufacturing Co. (furniture) will engage in the manufacture of household refrigerators.

**Knoxville—Coffin Factory.**—The Hall & Donohue Coffin Co. has been incorporated, with capital stock of \$12,000, for the manufacture of coffins, etc.

**Knoxville—Coal Company.**—The Emory River Coal & Coke Co., capital stock \$50,000, has been incorporated by D. B. Beau, Charles A. Weller, Alex. McMillen, J. S. Rayl and A. B. Melton.

**Nashville—Machinery Works.**—Chartered: The Dupee & Adams Manufacturing Co., to manufacture machinery, with capital stock of \$20,000. The incorporators are George Dupee, T. F. Adams, D. C. Richards and Arthur Richards.

**Tullahoma—Foundry, etc.**—It is stated that Groves & Krusman, of Cincinnati, Ohio, will remove to Tullahoma their foundry and manufacturing plant.

**Tullahoma—Broom Factory.**—Lite & Son have established a broom factory of 100 dozen capacity daily.

**Winchester—Telephone System.**—The establishment of a telephone system will be secured, as recently noted. S. M. Alexander can be addressed.\*

#### TEXAS.

**Brazoria—Saw Mill.**—Thomas Thompson, of Missouri, will build at Brazoria a large saw mill. Address care of Rowe & Wilson.

**Brazoria—Sugar Mill.**—Efforts continue to be made for the establishment of the \$200,000 sugar mill previously noticed. Messrs. Rowe & Wilson can be addressed for information.

**Colmesneil—Ochre Mining, etc.**—M. Votaw has recently discovered ochre beds on his property; will mine same and erect plant for drying and pulverizing the mineral.\*

**Corsicana—Oil Refinery.**—Theodore H. Ellis, of Hion, Pa., will erect an oil refinery at Corsicana.

**Corsicana—Boiler Works.**—J. S. Cullinan will establish boiler and iron-tank works.

**Corsicana—Oil Refinery, etc.**—L. C. Garrett, representing New York capitalists, is maturing plans for the development of oil leases and the erection of an oil refinery.

**Dallas—Mercantile.**—W. S. Shuttler & Son, capital stock \$25,000, has been incorporated by Jay W. Smith, Charles B. Harris and L. Shuttles.

**Dublin—Mercantile.**—The Dublin Drug & Jewelry Co., capital stock \$10,000, has been incorporated by G. W. Andruss, Sr., G. W. Andruss, Jr., E. G. Andruss and F. E. Dumas.

**Galveston—Electric-plant Enlargements.**—Blake Dupree, receiver of the Citizens' Electric Light & Power Co., has applied for permission to issue receivers' certificates for \$20,000, said amount to be expended in improvements to the plant.\*

**Galveston—Oil Refinery.**—The Gulf Coast Refining Co., of Galveston, capital stock \$25,000, has been incorporated by Robert Bornefeld, S. G. Spencer and John E. Bailey, to establish and maintain an oil company to refine petroleum, etc.

**Houston—Lumber Mills.**—The Texas & Louisiana Lumber Co., capital stock \$20,000, for manufacturing, buying and selling of all kinds of lumber, has been incorporated by Percy Allen, L. B. Menefee and A. F. Lucas.

**Klomahe—Mercantile.**—Incorporated: The Klomahe Commissary Co., capital stock \$5000, by S. J. Wright, Travie Wright and R. D. Bowen.

**San Antonio—Stage Lines.**—The Carter-Mullaly Transfer Co. has been incorporated, capital stock \$10,000, by C. B. Mullaly, John J. Stevens and J. W. Armstrong, to establish and maintain a line of stages.

**San Antonio—Chemical Company.**—The Consolidated Chemical Co. of New York, with headquarters at San Antonio, has filed its charter; capital stock \$5000; incorporators, Albert Kronkosky, Geo. Gersdorf and James Harper. (It is probable this company does not intend to operate in the South).

**San Antonio—Chemical Works.**—The Con-

solidated Chemical Co., capital stock \$5000, has been incorporated by Albert Kronkosky, George R. Gersdorf and James E. Harper.

**San Antonio—Vineyards.**—Incorporated: The Laguna Madre Vineyard Co., of San Antonio, capital stock \$150,000, by G. Stuart Simons, Charles W. Ogden and Sam M. Johnson, to grow, purchase and sell seeds, plants, trees, etc., for agricultural, horticultural and ornamental purposes.

**Sipe Springs—Mercantile.**—The Sipe Springs Mercantile Co., capital stock \$10,000, has been incorporated by T. C. Yantis, W. J. Yantis and F. B. Weaver.

**Sterling City—Irrigation System.**—The Snow Irrigation Co., capital stock \$5000, to construct a dam across the North Concho river for irrigation purposes, has been incorporated by S. H. Snow, G. M. Garrett and W. E. Flowers.

**Strawn—Coal Mine.**—The Content Coal Mining Co. has been organized with a capital of \$600,000 and J. M. Presler, of Comanche, president; J. L. Stephenson, of Abilene, secretary; W. R. Lindsay, of Comanche, treasurer; W. W. Johnson, of Strawn, general manager. The company will sink a shaft at an early date. Address the manager.

**Temple—Oil Wells.**—A company has been organized to drill for oil. Address H. E. Keys.

**Terrell—Water-works Improvements.**—The city will expend \$12,000 on improvements to its water works. Address the mayor.

**Terrell—Lumber Mills.**—Incorporated: The Powers Lumber Co., capital stock \$25,000, for manufacturing, buying and selling lumber, by George Mellersh, Nash Laroe, Wm. H. Allen and Joe M. Laroe.

**Wharton—Sugar Mill.**—A movement is on foot for the organization of a stock company to build and operate a sugar mill. R. A. Rich can give information.

#### VIRGINIA.

**Loudoun County—Ochre Mines.**—Messrs. Talmadge & Wilson, of 1423 F street N. W., Washington, D. C., and 120 East Baltimore street, Baltimore, Md., have secured extensive ochre beds in Loudoun county, Virginia, and will make thorough development of the property; will ship the raw material. Correspondence solicited from dealers and manufacturers.

**Lynchburg—Cotton Mill.**—The Lynchburg Cotton Mill Co.'s directors will recommend at the stockholders' meeting to be held March 26 the enlargement of the mill, plans for which are being prepared by C. R. Makepeace & Co., of Providence, R. I.; if contemplated plans are carried out, which is hardly doubtful, the company will increase from 21,500 spindles and 726 looms to 40,000 spindles and 1400 looms; Max Guggenheimer, president.

**Norfolk—Paving Improvements, etc.**—The local board of Brambleton ward will ask for the appropriation of \$20,000 bonds to pay for paving improvements, etc. Address L. P. Jernigan, president.

**Nottoway—Flour Mill and Spoke Factory.**—F. D. Newman will rebuild his burned flour mill and spoke factory; flour mill to have daily capacity of thirty barrels.\*

**Oakland—Soapstone Plant.**—W. S. Buchanan writes that a soapstone plant will be established on the land of B. H. Hester, near Oakland.

**Petersburg—Trunk Factory.**—Thomas H. Wood, H. L. Plummer, Chas. H. Witherpoon and B. D. Booth will form a company to establish a trunk and satchel factory.

**Portsmouth—Factories.**—The Portsmouth Co., Dr. William Schmale, representative, has about arranged for the location of several factories.

**Roanoke—Music Company Incorporated.**—Chartered: The Rogers Music Co., by J. B. Updike, H. DeBurgh, K. C. Rogers, W. N. Hanf and J. E. Rogers. The capital stock is to be not less than \$5000 nor more than \$15,000.

**Troutville—Cannery.**—C. M. Nalls, of Fincastrle, Va., will establish a cannery of 15,000 cases capacity at Troutville.

**Williamsburg—Cannery.**—E. W. Warburton will build a cannery.

**Williamsburg—Ice Factory and Cannery.**—Arthur Desmond and Archer Brooks are arranging for the erection of an ice factory and cannery.

**Wise—Electric-light Plant.**—Rumors are current of a proposed electric-light plant. Address John E. Hale.

#### WEST VIRGINIA.

**Branwell—Coal Mining, etc.**—Chartered: The United Mine Coal & Coke Co., with an authorized capital of \$1,000,000, by E. J.

Desmond, M. D. McGlothlin, W. S. Kabrich, N. L. Fleeman, J. L. Deaton, W. S. B. Clemm, Jos. O'Connor, J. M. Mathews, Geo. H. Zimmerman, W. A. Voight, P. H. O'Connor and P. J. Desmonds, of Pocahontas, Va., and A. M. Johnson, of Bramwell. Address the last named.

**Charleston.**—Chartered: The Wilson Spring & Telephone Co., with an authorized capital of \$100,000, for the purpose of manufacturing ginger ale and products of like nature. The incorporators are Jos. T. Stubbs, Vernon M. Pierce, Prentice H. Manning and Josiah Hinckley, of Boston, Mass., and George G. Hackett, of Wakefield, Mass. (This company probably does not intend to operate in the South).

**Charleston—Gravel Mines.**—Incorporated: The Nesene Gravel Mining Co., with an authorized capital of \$300,000, by E. L. Squire, H. B. Campbell, E. C. Wyley, A. W. Harris and L. W. Levy. Address D. N. Dilla, attorney, 402 Montgomery street, San Francisco, Cal.

**Charleston—Mining.**—Incorporated: The Englewood Alaska Mining Co., with an authorized capital of \$100,000, for the purpose of acquiring gold and silver mining rights. The incorporators are E. L. Squire, E. C. Wyley, H. B. Campbell, A. W. Harris and L. W. Levy.

**Dobbin—Coal Mines.**—The Davis Coal & Coke Co. has purchased and will develop 2500 acres of coal lands near Dobbin; address company at Davis, W. Va.

**Grafton—Construction Company.**—The Greenbrier Valley Construction Co. has been incorporated for the purpose of constructing railroads, telegraph lines, etc., with capital stock of \$2,000,000. Incorporators: John T. McGraw, of Grafton; J. M. Beckley, E. M. Upton and Thomas R. Lewis, of Rochester, N. Y., and Charles M. Warner, of Syracuse, N. Y. (It is the principal intention of this company to construct the new Greenbrier Valley Railroad, which is to be built during the coming spring and summer).

**Kingwood—Construction.**—Incorporated: The Miller Construction Co., to engage in railroad construction and other works of that nature. The capital stock is \$10,000, with privilege of increasing to \$50,000. D. L. Miller and others, of Lock Haven, Pa., are the incorporators. Address Mr. Miller.

**Parkersburg—Gas and Oil Wells.**—The Orient Oil, Gas & Development Co. has been incorporated, with \$5000 capital and privilege of increasing to \$10,000, by F. C. Percival, J. White Johnson, J. A. Watson, C. L. Clayton, E. R. Paton, F. M. Kiser, Conrad Goetz and W. M. Padon. Address F. C. Percival.

**West Union—Telephone Company.**—Incorporated: The West Virginia Western Telephone Co., with an authorized capital of \$75,000, by J. H. Grogg, Joseph Freeman, A. H. Cutright and Rebecca Grogg, of West Union, and Guy Cutright, of Cairo.

**Wheeling—Sewerage System.**—The city council has authorized E. J. Millar, of B. Masonic Temple, to prepare plans for a sewerage system.

**Wheeling—Electric Plant.**—The Wheeling Street Railway Co. will increase the power of its electric-power plant, putting in new machinery and making other improvements.

#### BURNED.

Bethany, S. C.—Saw mill and grist mill of Preston Goforth; loss \$1000.

Birmingham, Ala.—Tennessee Packing Co.'s plant, damaged to extent of \$3000.

Dyersburg, Tenn.—G. G. Roberts & Co.'s planing mill; loss \$6000.

Dyersburg, Tenn.—A. M. Stevens Lumber Co.'s planing mill; loss \$200,000.

Georgetown, S. C.—Rice mill of Chas. P. Albston; loss \$5000.

Greenville, Texas.—Richter, Lamin & Co.'s flour mill; loss \$30,000.

Greenwood, S. C.—Cotton gin of B. W. Baird at Fort Loring; loss \$1100.

Lake Charles, La.—Lumber mill of Lock, Moore & Co.; loss \$2500.

Louisville, Ky.—Picking, drying and steaming houses of the National Tobacco Co.; loss \$1,000,000.

Lynchburg, Va.—Dye works of the Stamford Manufacturing Co. badly damaged by fire.

Mobile, Ala.—Dry-kiln of Cameron Shingle Co. at Three-Mile Creek, near Mobile; loss \$3000.

Quincy, Fla.—Tobacco-curing houses of the Owl Cigar Co.; loss, including tobacco leaf, \$100,000.

Walterboro, S. C.—Lumber mill of B. H. Curtino; loss \$10,000.



## BUILDING NOTES.

Atlanta, Ga.—Warehouse.—The Atlanta Woodenware Co. is building a four-story 230x42-foot warehouse.

Austin, Texas.—Depots.—The Texas Central Railroad has purchased site for \$18,500 on which to build a depot; will also build a freight depot; Capt. H. D. Patrick, local manager.

Baltimore, Md.—Dwellings.—C. B. Burdette will erect eighteen two-story dwellings.

Baltimore, Md.—Dwellings.—J. F. Armiger will build seven two-story residences; J. Arthurs will erect sixteen three-story residences.

Baltimore, Md.—Dwellings.—J. P. Brandau has permit to erect thirty-two two-story brick dwellings; Charles A. Lipp to erect twenty-two two-story houses.

Birmingham, Ala.—Telephone Building.—C. H. Cole, of Atlanta, Ga., will prepare preliminary plans and estimates on proposed remodeling of the Southern Bell Telephone Building.

Dallas, Texas.—Dwelling.—Anna L. Sweatt will build a \$5000 dwelling.

Ensley, Ala.—Dwellings.—The Ensley Co. will build fifty dwellings.

Fort Barrancas, Fla.—Wharf, etc.—Sealed proposals in triplicate will be received till March 28 for constructing a wharf and boathouse; government reserves right to accept or reject any or all bids or parts thereof. Address M. F. Harmon, Lieut., Jr. Mr.

Giddings, Texas.—Courthouse.—The county will issue \$40,000 in bonds to pay for the construction of the proposed courthouse; building is to be of pressed brick, with slate roof, and architects are invited to submit plans on building costing not more than \$35,000. Address A. B. Green, county clerk.

Hinton, W. Va.—Church.—The erection of a \$3000 Roman Catholic church is proposed. Address F. M. Kirby.

Independence, Mo.—School.—The city has voted an issuance of \$30,000 in bonds for the erection of a schoolhouse. Address the mayor.

Jonesboro, Ga.—Courthouse.—Contract for the erection of courthouse will be awarded April 4 and bids will be invited; plans have been accepted. Address J. M. Defoor.

Lake Charles, La.—Hotel.—Pierce Theaux and associates will build a hotel.

Lynchburg, Tenn.—Business House.—Waggoner & Dance will erect a business building.

Lynchburg, Va.—City Hall.—E. G. Frye has prepared preliminary plans for a city hall for the consideration of the city council. Address the mayor.

Macon, Ga.—Temple.—The A. F. and A. O. M. is considering plans for a temple to cost about \$40,000; W. A. Hemphill, chairman.

Macon, Ga.—Hospital Addition.—W. S. Denny has offered to prepare (gratuitously) plans and specifications for the proposed Gresham memorial addition to Macon Hospital. For information address S. R. Jeronigan.

New Orleans, La.—Hospital.—The Sisters of Charity contemplate the erection of a new hospital. Address Sister Lucia, superioress.

New Orleans, La.—Dwellings.—Permit issued to Mrs. T. Livaudais for \$1050 cottage; to Ella Cobb for \$1200 cottage, and to J. D. Keener for \$1700 cottage.

New Orleans, La.—Hospital.—Contractors and builders are invited to submit sealed bids until March 19 at 12 M. to the board of administrators of the Charity Hospital for the erection and completion of the Richard Milliken Memorial Hospital for Children. Plans and specifications can be seen in office of architects, Sully, Burton & Stone Co., Limited, No. 1103 Hennen Building. Successful bidder must furnish bond as may be required and check for 5 per cent. of amount of bid must accompany all propositions, otherwise they will not be entertained. The board of administrators reserve the right to reject any and all bids. Bids to be sealed, addressed to the vice-president and deposited with Edwin Marks, secretary.

Newport News, Va.—Theater.—P. Thornton Marve, of Newport News, will prepare plans for the \$80,000 theater noted last week as to be built by Winston Bros., of Chicago.

Newport News, Va.—Theater.—Plans are being prepared for a \$40,000 theater to be built by F. F. Finch and others.

North Wilkesboro, N. C.—Hotel.—The Brushy Mountain Iron & Lithia Springs Co. has commenced the erection of a hotel on

Brushy mountain, structure to cost about \$5000; J. E. Finley, A. A. Finley and others are interested.

Orange, Texas.—Courthouse.—Sealed proposals will be received by the Commissioners' Court of Orange County, Texas, until March 15 for the erection of a fireproof courthouse in accordance with the plans and specifications now on file at the office of the county clerk at Orange, Texas, and at the offices of F. S. Glover and Glenn Allen, architects, 329-330 Mason Block, Houston, Texas. Each bid must be accompanied by certified check for \$2500, payable to county judge should the accepted bidder fail to give good and sufficient bond in the full amount of the bid for the faithful performance of the work. The county reserves the right to reject any or all bids. Address S. Chenauff, county judge.

Parsons, W. Va.—Courthouse.—Tucker county will vote March 29 on a proposition to issue \$30,000 in bonds for erection of a courthouse. Address county clerk.

Ronoke, Va.—Temple.—Mountain Dale Lodge, I. O. O. F., proposes the issuance of \$5000 bonds to build a temple.

Roslyn, Va.—Residence.—J. B. Laybrook, of Alexandria, will build a residence at Roslyn.

Savannah, Ga.—Station.—John R. Eason has contract at \$5000 to erect a police station after plans and specifications on hand.

Savannah, Ga.—Temple.—Contract has been awarded to the Stewart Contracting Co., of St. Louis, Mo., at \$16,281 for the erection of a Masonic Temple in Savannah.

Stephenville, Texas.—Church.—The Baptists will build a church building. Address W. H. Hawkins.

St. Louis, Mo.—Office Building.—A company will be formed to build a 10-story office building after plans to be prepared by Theodore C. Link.

Tullahoma, Tenn.—Dwelling.—Mrs. L. D. Hickerson will build a dwelling.

Versailles, Ky.—Opera-house.—If definite particulars develop regarding the proposed opera-house, W. R. Procter can give information.

Washington, Ga.—Orphanage.—St. Joseph's Orphanage will rebuild its burned buildings; new building to be two stories high, 75x32 feet, cost \$6000, and have heating, gas and laundry plants.

Washington, D. C.—Dwellings.—W. J. McClure will build twenty-six dwellings. President Whitman, of the Columbian University, will erect a residence. Frank L. Hanvey has contract at \$75,000 for the erection of the office building for Columbian University; structure to have seven stories, 77x33 feet, framework of brick, steel and stone; Hanvey's contract does not include heating apparatus and elevators; address President Whitman, of the university. George S. Cooper has completed plans for apartment-house, four stories high, 60x80 feet, to have twelve apartments of five rooms and bath each, steam heat throughout, gas range in each apartment, etc., to cost \$30,000. Arthur L. Bryant will build an apartment-house. Arthur L. Bryant is preparing plans for eight dwellings, each three stories high, furnace heat, bathrooms, cabinet mantels, etc.; builder, John H. Nolan.

Wilmington, N. C.—Hotel Enlargement.—A 30-room annex will be built to the Seashore Hotel at Wrightsville Beach. Address George Campbell, manager.

## RAILROAD CONSTRUCTION.

## Railways.

Aberdeen, Miss.—It is reported surveys have been begun for a railroad line from Aberdeen to Carbon Hill, Ala., also to Birmingham, a total distance of 120 miles. [This line is probably being surveyed in the interest of the Mississippi Valley Coal & Railway Co., of which Henry Wellman, president of the Tontola Savings Bank of New Orleans, is president.—Ed.]

Aurora, Mo.—It is reported that the St. Louis & San Francisco Railroad Co. may build a branch line from Aurora to Harrison, Ark., a distance of fifty miles. B. F. Yeakum, at St. Louis, is general manager.

Cary, N. C.—John C. Angier, of Cary, is interested in one of the proposed railroads into Harnett county, and states that his company has purchased a number of tracts of timber lands which will insure the building of the line. This is the one projected by way of Holly Springs to terminate at the Cape Fear river.

Chattanooga, Tenn.—It is reported that the Chattanooga Southern Railroad Co., of which W. S. Hoskins is general manager, has determined to make several improve-

ments to its line, including the rebuilding of a portion of the track.

Chesterfield, Va.—The Virginia Central Railroad, it is stated, proposes to build a line from a point on the James river through Chesterfield to a connection with the Southern Railway. The road is near the coal deposits in that locality. The officers chosen are J. Chester Wilson, president; H. W. Lambirth, treasurer, and H. K. Myers, secretary. These are from Philadelphia, and with them Messrs. A. A. Rudd and W. W. Baker, of Chesterfield, constitute the board of directors.

Corsicana, Texas.—A correspondent of the Manufacturers' Record states that F. C. Hand is interested in building the Corsicana & Southeastern Railway to Sabine Pass. He is also promoting an extension of the Fort Worth & Denver City and the Rock Island system to the coast.

Culpeper, Va.—T. Edwin Grimsley, one of the promoters of the railroad line in Rappahannock county, informs the Manufacturers' Record that this is independent of any other line now in operation and that the promoters intend to build it to Fredericksburg, if possible, to a connection with a railroad proposed from that town up the Rappahannock river.

Cumberland, Md.—The Frostburg & Cumberland Railroad Co., also the Lonaconing & Westernport Railroad Co., have been incorporated to build electric lines, the first from Cumberland to Frostburg, Md., and the second from Frostburg to Westernport by way of Lonaconing. The roads will be about twenty-four miles long in all. Among those interested are J. W. Buchner, of Moundsville, Va.; M. Wheland, of Frostburg, and William Atkinson, of Lonaconing.

Davis, W. Va.—It is reported that the Beaver Creek Railroad Co. has decided to extend its railroad line a distance of ten miles to timber lands which it controls.

Deepwater, Va.—It is reported that the Deepwater Railroad Co. has let contracts to M. Moorman & Co., of Lynchburg, Va., for a portion of its work. The road is to be built between Deepwater, on the Kanawha & Michigan Railroad, to Glen Jean, in Fayette county. Several bridges will be constructed. The Gauley Mountain Coal Co., at Ansted, W. Va., is one of the promoters of the enterprise.

Demopolis, Ala.—W. E. Rutledge, one of the promoters of the Demopolis & Pensacola Railroad Co., informs the Manufacturers' Record that the company has purchased sixty-five miles of rails and that work has begun at Demopolis on the road proposed from Pensacola, Fla., to Birmingham, Ala., by way of Demopolis.

Denton, Texas.—R. E. Carswell, J. M. Simmons, E. H. Baumgartner and others have formed the Denton, Decatur & Western Railroad Co. to build a line thirty-five miles long from Denton to Bridgeport, in Wise county. The company is capitalized at \$100,000.

Des Arc, Ark.—It is stated that twelve miles of the Des Arc & Northern Railroad have been completed and the entire line graded. It is expected to have the railroad in operation by May 1. It is to be built between Des Arc and the Red river, a distance of twenty-five miles. George O. Griffith, at Bald Knob, Ark., is president of the company.

Dogwood, Ala.—The Montevallo Mining Co. is building a spur one and one-half miles long from Dogwood, on the Southern Railway, to its mines. J. B. Randall is president of the company.

Easton, Md.—The people of Easton, also Trappe, Md., are agitating the proposed railroad line between these towns, a distance of ten miles. Among those interested are Percival Mullikin, of Easton, and William S. Merrick.

Fort Smith, Ark.—General Manager Robert Gillham, of the Kansas City, Pittsburg & Gulf Railroad, informs the Manufacturers' Record that the branch to Fort Smith will be sixteen miles long. It is now under construction.

Hinton, W. Va.—The Hinton, New River & Western Railroad has been promoted by J. F. McCreery, who is president of the company, and A. R. Hedlin, who is secretary. It is stated that the entire length of the road will be 140 miles, extending from Pearisburg, Va., on the Norfolk & Western Railroad, along the New River and Coal river valleys to Charleston. It is stated that the first section is covered by the bond issue of \$600,000, and is to be built between Pearisburg and Hinton, a distance of thirty-seven miles.

Jackson, Ky.—It is reported that a company has again been formed to build a railroad line from Jackson to the canal coal

fields in Morgan county. W. W. McGulre, at West Liberty, Ky., is interested in the enterprise.

Ludlow, Ky.—It is reported that the Crescent Springs Railroad Co. has surveyed its proposed line from Ludlow to Florence, Ky., by way of Covington Springs. E. O. Young, of Covington, Ky., is reported as engineer.

Mansfield, Ga.—It is stated that the plan of building a railroad between Mansfield and Social Circle, Ga., has been revived, and the line will be built along the bed graded several years ago. Luke Campbell and A. Roberts are among those interested.

Meridian, Miss.—W. H. Hardy, one of the promoters of the Natchez & Gulf line, informs the Manufacturers' Record that a charter has been granted and that bonds will be issued at the rate of \$15,000 per mile. It is expected that work will begin in the near future.

Monroe, La.—The proposed railroad between Monroe and Natchitoches will be about 110 miles in length. It is to be constructed by the Monroe Railroad & Construction Co. L. D. McLain is president. R. A. Shotwell, of Monroe, is also interested.

Mobile, Ala.—General Manager J. G. Mann, of the Mobile & Ohio, informs the Manufacturers' Record that the Belt Line in the suburbs of Mobile is nearly completed. The company is doing the work.

Moundsville, W. Va.—The Moundsville & Wheeling Railroad Co. has been chartered, with \$200,000 capital, to build a line from a point near Crow's Mills, Pa., to Wheeling, W. Va. The road will traverse the coal-fields of Green and Fayette counties in Pennsylvania. Among those interested are G. S. McFadden and C. H. Weaver, of Moundsville. (This is independent from the project referred to in this column under the title of the Pittsburg, Connellsville & Wheeling.—Ed.)

Natchez, Miss.—The company promoting the railroad between Natchez and the Southwest Pass, to pass through Opelousas and Crowley, La., has been organized. Among those interested is Thomas H. Lewis. Ira Sylvester is general manager.

New Orleans, La.—It is stated that the Cincinnati, New Orleans & Texas Pacific Railroad Co. will place about 7000 tons of 75-pound steel rails along its line, which will relay the track for a distance of fifty-two miles. A. Griggs, at Cincinnati, Ohio, is superintendent of the company.

Newport News, Va.—It is stated that the proposed electric line being promoted by the Newport News & Old Point Electric Co. is to be completed by August 1. It is calculated that the road will cost \$400,000. W. J. Payne, of Richmond, Va., is one of the promoters of the enterprise.

Norfolk, Va.—The Norfolk, Virginia Beach & Southern Railroad Co. has completed its branch line for a distance of thirteen miles. B. P. Holland, at Norfolk, is general superintendent.

Peck City, Texas.—The promoters of the Gulf & Brazos Valley Railroad Co. have determined to build a branch line from a connection with the Texas & Pacific and the Gulf & Brazos Valley at Peck City, to a junction with the Rock Island system in Montague county, Texas. The line will be 100 miles long. W. A. Squires, of Henrietta, Texas, is one of the principal promoters of the enterprise.

Sumter, S. C.—The Sumter & Wateree River Railroad Co., it is understood, proposes to build a line from Sumter to Middleton Junction, on the South Carolina & Georgia road, a distance of about sixteen miles. A part of this line was graded several years ago. Among the promoters are James D. Blanding, R. D. Lee and H. J. McLaurin, of Sumter.

Victoria, Texas.—It is reported that about four miles of the Guadalupe Valley Railroad has been graded between Victoria and the seacoast. J. H. Barrett is contractor for the line.

West Liberty, Ky.—It is reported that a railroad line is being built in Morgan county to terminate at West Liberty, which will reach the Blackwater River valley.

White Sulphur Springs, W. Va.—The Greenbrier Valley Construction Co. has been incorporated, with \$2,000,000 capital, by John T. McGraw, of Grafton, W. Va.; J. U. Beckley, E. M. Upton, Thomas Levis, of Rochester, N. Y. It is understood that this company will construct the railroad line to be built along the Greenbrier valley a distance of 100 miles to connect with the Chesapeake & Ohio.

## Street Railways.

Birmingham, Ala.—It is reported that the Birmingham Traction Co. has secured the

street railroad of North Birmingham, and may rebuild it for the use of electric motors. The road is about five miles in length. G. M. Williams is general manager of the Traction Company.

Fort Worth, Texas.—J. F. Voss, of the Polytechnic Street Railway Co., informs the Manufacturers' Record that this line will be extended two and one-half miles in the southern portion of the State. Material for the extension will be required, also motors for the cars.

Kansas City, Mo.—It is stated that the Northeastern Electric Railway Co. has determined to expend \$100,000 in improving its system this year. The improvements, it is stated, will include the relaying of new tracks and the purchase of new rolling stock. A viaduct may also be constructed. W. O. Hands is general manager of the company.

### Machinery, Proposals and Supplies Wanted.

**Manufacturers and others in need of machinery of any kind are requested to consult our advertising columns, and if they cannot find just what they wish, if they will send us particulars as to the kind of machinery needed we will make their wants known free of cost, and in this way secure the attention of machinery manufacturers throughout the country. The MANUFACTURERS' RECORD has received during the week the following particulars as to machinery that is wanted.**

Baling Presses.—See "Compresses."

Bank Fixtures.—Trellue Cypress Lumber Co., Sam R. Guyther, secretary, Patterson, La., wants catalogues, prices and full particulars regarding counter railing, grill work, etc., in brass, iron and other metals.

Boiler and Engine.—Charles S. Webb, Gainesville, Ga., is in the market for 100-horse-power boiler and engine. (See "Electric-light Plant.")

Boiler and Engine.—"Electrician," 2424 Avenue Q<sup>1/2</sup>, Galveston, Texas, is in the market for boiler and engine. (See "Electrical Machinery" and "Ice Plant.")

Boiler and Engine.—Hart Manufacturing Co., Flat Rock, N. C., is in the market for a 100-horse-power return tubular boiler and 50-horse-power automatic cut-off engine; also 60-horse-power boiler and 40-horse-power engine, with fixtures; also shafting, pulleys, etc.

Boiler and Pump.—The city of Hallettsville, Texas, will receive bids until March 10 for furnishing a 70-horse-power first-class tubular boiler and all fittings, and a hot-water pump, etc. Specifications on file with W. A. Mair, city clerk.

Boilers and Engine.—Brown Singleton, Lake City, Fla., wants to buy battery of boilers, 60x14 inches, full fronts and stack complete, and a 14x20-inch slide-crank engine.

Bridge.—Commissioners' Court of Gonzales county will receive bids and plans, to be opened on May 11, for the construction of an iron, steel or wire bridge across the San Marcos river at Slayden, ten miles above Gonzales; court reserves right to reject bids. Address W. W. Glass, county judge, Gonzales, Texas.

Bridge.—The Commissioners' Court of Gonzales County will receive bids and plans, to be opened on May 11, for the construction of an iron, steel or wire bridge across the San Marcos river at Slayden, ten miles above Gonzales. The court reserves the right to reject any and all bids. Address W. W. Glass, county judge Gonzales county, Texas.

Broom Machinery.—Greer Machinery Co., Knoxville, Tenn., wants to buy broom machinery; second-hand or new.

Building Materials, etc.—O. L. Joyner, Greenville, N. C., wants to correspond with manufacturers of building materials, office fixtures and furnishings.

Chalybeate and Lithia Springs.—Baker Springs Co., Henry Moore, president, Texarkana, Ark., wants bids on one strong chalybeate spring discharging fifty gallons per minute, and on one lithia spring discharging twenty-five gallons per minute.

Compresses.—G. S. Boren, Pomona, N. C., wants addresses of manufacturers of presses for baling spagnum moss.

Conveying Machinery.—Ashland Fire Brick Co., Ashland, Ky., will buy a clay elevator and conveyor.

Cotton Mill.—W. A. Bates, care of Bates-

Farley Savings Bank, Atlanta, Ga., is in the market for complete cotton mill of 2000 to 3000 spindles; second-hand machinery preferred, if in good condition.

Electrical Machinery.—See "Railway Equipment."

Electrical Machinery.—"Electrician," 2424 Avenue Q<sup>1/2</sup>, Galveston, Texas, is in the market for a 60-kilowatt alternator; also engine and boiler.

Electric-light Plant.—Charles S. Webb, Gainesville, Ga., is in the market for a 100-horse-power engine and boiler, 1000-light dynamo and fixtures for incandescent plant.

Electric-light Plant.—Hart Manufacturing Co., Flat Rock, N. C., is in the market for 200 to 250-light 110-volt dynamo.

Electric-light Plant.—R. G. Andrews, president Winstboro Electric Light & Power Co., Winstboro, S. C., wants to buy engine and 600 or 750-light 16-candle-power dynamo.

Electric-light Plant.—Blake Dupree, receiver Citizens' Electric Light & Power Co., Galveston, Texas, will probably issue \$20,000 worth of receiver's certificates for following improvements: Repair and partially reconstruct boilers and engines; condensing apparatus; repair circuits, including new crossarms and poles; repair electrical apparatus; install full equipment of ammeters and voltmeters; new power generator; coal pocket for economy; repair buildings; replace Slattery transformers with those of later type.

Electric Plant.—United States engineer office, New London, Conn., February 24, 1898.—Proposals for electric lighting and power installation at Plum Island, New York, will be received until noon March 24, 1898, and then opened. For information apply to Smith S. Leach, major, engineers.

Embankment Work.—Notice to Contractors.—150,000 yards of good embankment work to let at Crowley, La. Address J. A. Anderson & Son, care W. W. Dusen & Bro., Crowley, La.

Engine.—See "Electric-light Plant."

Fire Equipment.—The city of Wheeling, W. Va., contemplates the purchase of two chemical engines. Address the mayor.

Flour Mill.—F. D. Newman, Nottoway, Va., wants to buy complete equipment for 30-barrel roller flour mill.

Flour Mill.—A. K. Clark, Clark Milling Co., Augusta, Ga., wants to receive estimates on re-equipment of flour mill; new mill to have daily capacity of 500 barrels of meal and flour.

Foundry.—See "Stove Foundry."

Furniture.—R. Dalley, Petersburg, Va., wants to buy three-quarter enameled bedsteads and bed springs.

Heating and Lighting System.—See "Lighting System."

Ice Plant.—"Electrician," 2424 Avenue Q<sup>1/2</sup>, Galveston, Texas, is in the market for a three-ton and an eight to ten-ton ice plant complete.

Lighting System.—The Colbert Light & Heating Co., P. B. Cohen, Sheffield, Ala., is in the market for supplies for hydro-carbon heating and incandescent system.

Machine Tools.—Collins Colliery Co., Glen-jean, W. Va., wants a second-hand 24-inch lathe, with screw-cutting lathe, 10 to 12-foot bed.

Machine Tools.—Ben F. Hudson, Rockport, Texas, will be in the market for cornice-squaring shears to cut No. 20 iron 72 inches long; cornice brake to bend No. 20 iron 72 inches long; combined shear and punch; circular shear to cut 3 to 12-inch circle; double-seaming machine, fire pot, coppers and snips, straight and circular snips, etc.

Mining Equipment, etc.—Levi Votaw, Colmesneil, Texas, will want equipment for mining ochre and preparing same for market.

Oil Mill.—J. H. Reeves, Eufaula, Ala., wants prices on 40-ton cottonseed-oil mill, complete, and on each article separately (forming oil mill) as follows: Two standard 15-box presses, two 52-inch heaters, with charging hoppers, conveyors, etc.; set four high 30-inch chilled rolls; steam former, with pulley; 18x1x10 duplex hydraulic pump; 3x3 pump tank; sand and hull screen 54 inches by 12 feet; meat and hull separator 54 inches by 32 feet; three 106 liters; huller, heavy, 30 to 60 tons; baling press; cake breaker; attrition mill; 85 feet three-inch shafting, conveyors, elevators, belting, etc.; two 40-horse-power standard steel tubular boilers, 80-horse-power Corliss engine, 4x3x4 duplex boiler feed pump, feed-water heater, 60-ton track scale, four-ton wagon scale, 2500-pound dormant scale, 600-pound platform scale. Price estimated must be on machine when in position and tested.

Pulleys, etc.—Hart Manufacturing Co.,

Flat Rock, N. C., is in the market for shafting and pulleys.

Pump.—The city of Hallettsville, Texas, will receive bids until March 10 for furnishing a hot-water pump, etc. Address W. A. Mair, city clerk. (See "Boiler and Pump.")

Pumps.—Mississippi river commission, 2732 Pine street, St. Louis, Mo.—Sealed proposals, in triplicate, for furnishing two duplex steam pumps, each of 2000-gallon capacity per minute, will be received here until 12 o'clock noon, standard time, March 26, 1898, and then publicly opened. Information furnished on application. H. E. Waterman, captain engineers, secretary.

Railway Equipment.—Morton & Smith, 403 Law Building, Baltimore, Md., want to buy or rent (preferred) a 36-inch-gauge locomotive and three 36-inch-gauge trucks for cars; second-hand equipment will do.

Railway Equipment.—Sealed bids for the construction and delivery of forty-two self-righting geared dump cars for use in the construction of Gray's Harbor jetty, Washington, will be received until 12 o'clock noon of March 10, 1898. Bids received for cars complete or for material. Plans and specifications furnished upon application. Address Hale & Kern Contract Co., 340 East Water street, Portland, Ore.

Railway Equipment (Electrical).—Glenwood & Polytechnic College Street Railway Co., Fort Worth, Texas, is in the market for rails (2 1/2-mile line), splice joints, bolts, spikes, poles, ties, four motor equipments for cars, etc.

Roofing Paper.—Hart Manufacturing Co., Flat Rock, N. C., is in the market for tarred paper for roof.

Saw Mill.—See "Woodworking Machinery."

Steel-working Machinery.—See "Stove Foundry."

Stove Foundry.—Bridgeford & Co. (Incorporated), Fifth and Main streets, Louisville, Ky., is in the market for a complete equipment of machinery for the manufacture of steel ranges.

Tanks.—Poulterer & Co., 206 Bullitt Building, Philadelphia, Pa., are in the market for two iron tanks from 30 to 42 feet long, 10 feet wide and 6 to 8 feet deep, No. 8 iron.

Telephone Equipment.—S. M. Alexander, Winchester, Va., wants full information regarding the construction and operation of telephone systems, cost of constructing same, etc.

Water Works.—C. N. Evans, Reidsville, N. C., wants information regarding water works (standpipe system), and bids on complete plant or material will be considered.

Well-drilling Machinery or Contract for Well.—Sydnor Pump & Well Co., Richmond, Va., is in the market for purchasing machinery for or contracting for the construction of a shaft fourteen feet square and 200 feet deep through solid granite, near Richmond.

Wire Work.—See "Bank Fixtures."

Woodworking Machinery.—J. H. Durham, Morehead, Ky., wants swing cut-off saw and equipment for portable saw mill.

Woodworking Machinery.—J. W. Frick, Faith, N. C., wants to buy a buzz planer.

Woodworking Machinery.—F. D. Newman, Nottoway, Va., wants to buy complete equipment for spoke factory.

### TRADE NOTES.

Lumber Plant.—A finely-equipped planing mill and manufactory is offered for sale by Messrs. Brobston, Fendig & Co., Brunswick, Ga.

Electric-light Plant for Sale.—A complete electric-lighting plant is offered for sale by Wm. H. Ruffin, of Louisburg, N. C., acting as trustee for a company.

Cotton Machinery.—A line of good second-hand cotton-mill machinery is being offered for sale by Mr. Robert Franklin Adams, 18 Walker street, New York city.

Heating Apparatus.—The Peck-Hammond Co., of Cincinnati, O., has contracted for heating apparatus for the new College Hill Baptist Church at Lynchburg, Va.

Steel Plant and Foundry for Sale.—An open-hearth basic steel plant and an iron foundry are offered for sale or lease by Mr. Eugene F. Ensler, of Birmingham, Ala.

Ice Factories.—The York Manufacturing Co., of York, Pa., has closed a number of large contracts for ice machinery and complete plants recently. Contracts filed call for a 15-ton brine plate plant at Rahway, N. J.; increase of five-ton plant at Vineland, N. J., to 10-ton plant, and addition

of other machinery and appliances; increase cold-storage capacity of plant at Asbury Park, N. J.; 30-ton ice plant at Gloucester, N. J.; 10-ton ice plant at Trenton, N. J.; 100-ton ice plant at St. Louis, Mo.; 15-ton ice plant at Donaldsonville, La., and a 15-ton ice plant at Patchogue, N. Y.

Good Business.—Reports from the H. Mueller Manufacturing Co., of Decatur, Ill., indicate that business with that firm has been especially active for this time of the year, and prospects are very bright. The company recently shipped ten dry-pipe and gas-main tapping machines to an Eastern firm, and has many like orders on hand.

A Big Planer.—The Davis & Egan Machine Tool Co., Cincinnati, O., has ordered from the Pond Machine Tool Co., of Plainfield, N. J., one of the latest pattern 72-inch square planers, with four heads, and 40 foot table. This will be one of the longest planers running in this country, and will be installed in the new plant at Covington, Ky.

General Engineering.—Development companies or others requiring the services of engineering experts would probably find it of interest and value to correspond with Mr. S. J. Macfarren, M. E., of Pittsburgh, Pa. (Lock Box 864). Mr. Macfarren engages in engineering work generally, electric, traction and transmission, water-power development, introduction of capital, etc.

In New Offices.—Mr. F. P. Shumway, who for nearly twenty-five years has occupied an office in the Balard Building, Boston, Mass., has removed to the Jewelers' Building, in the same city, located at Bromfield and Washington streets. Mr. Shumway will continue to act as confidential adviser to manufacturers and jobbers desiring to extend their business in Europe and America.

Virginia Bridge & Iron Co. Is Prospering.—Reports of newspapers and technical journals regarding the West Virginia Bridge Works, which recently assigned at Charlestown, W. Va., are calculated to confuse that company with the Virginia Bridge & Iron Co., of Roanoke, Va., owing to similarity of names. The Virginia Bridge & Iron Co. is enjoying prosperity, and it is not likely the courts shall ever be called upon to distribute its assets.

Electrical Works Enlarging.—Extensive improvements are being made to the electrical apparatus works of the Carl Electric Co., of Mansfield, O. The machine shop and foundry is being enlarged so that the anticipated increased demand for card machinery may be facilitated this year. Larger and heavier designs of electrical machinery will be built and orders will meet with prompt attention. The company's latest catalogue is now ready for distribution; copies on application.

A Big Contract.—The contract for the hot-blast heating and ventilating apparatus to be used in the new courthouse at Fort Wayne, Ind., was yesterday sublet to the Buffalo Forge Co., of Buffalo, N. Y. This is perhaps the largest contract to be let by Messrs. Hattersley & Sons, the contractors for the interior work of the building. The plant will consist of a fan system of heaters, blowers, engines, etc., by which a current of pure air is kept in constant circulation throughout the building.

Harvard University.—It is of no small credit to the authorities of Harvard University that they make an effort to keep abreast of the times and to make changes in their curriculum and in their methods that the needs of the day demand. To no other department does this apply with more force than to the scientific school, which just now is receiving so much attention in education circles. In 1886 the number of students in attendance was but fourteen, and in 1888 only thirty-five were registered. In the current year the number registered is 411. The engineering department of this school is especially strong, having at its head Prof. Ira N. Hollis, for a long time chief engineer of the United States Navy.

Electric Illumination.—The Illumination of the grounds and buildings of the great exposition for which Omaha is now preparing will be made on a scale of magnificence unequalled even by the wonderful effects obtained at Chicago in 1893. Mr. Luther Stieringer, the lighting expert of the World's Fair, is consulting electrician for the Omaha Exposition Co. No less than 2155 kilowatts in dynamos and transformers have already been ordered from the General Electric Co. In detail, the contract covers four 125 2000-candle-power light Brush arc dynamos of the multi-circuit type, four 120-kilowatt and two 180-kilowatt alternating current



high periodicity dynamos, operating at 1040 volts, together with 840-kilowatt, in type H, transformers of different sizes. Current for various power purposes will be supplied from a generator of 225-kilowatt capacity, operating at from 500 to 550 volts. The arc lamps will number 600 of 2000 candle-power each, to be of either the double or single carbon type.

### TRADE LITERATURE.

**Calendar.**—A '98 calendar has been issued by Messrs. Thompson & Bushnell, of 129 Liberty street, New York city. Illustrations of the firm's steam specialties appear on the card.

**Oxford, N. C.**—A pamphlet entitled "All About Oxford, Granville County, N. C.—Its Advantages and Attractive Features" is now being distributed to those interested. Address corresponding secretary, Chamber of Commerce.

**Memorandum Calendar.**—An 1898-99 daily memorandum calendar has been issued with the compliments of Messrs. M. Zier & Co., of New Albany, Ind., boiler and sheet-iron workers. This novelty will be found invaluable as a helper in keeping future obligations and appointments.

**Steam Pumps Catalogue.**—Illustrated catalogue No. 12 of the Gardner Governor Co., of Quincy, Fla., has been issued. The company's line of products includes duplex steam pumps, steam-engine governors, pump governors, balanced valves, pressure reducers, angle valves, globe valves, etc.

**Electrical Machinery.**—The Card Electric Co., of Mansfield, O., has issued a neat and handsome catalogue, with illustrations and descriptive matter of new designs in direct current slow-speed multipolar dynamos and motors, both for belted and direct service, and will be pleased to supply copies on application.

**Shirk Bicycles.**—The 1898 catalogue of the Shirk Company, of 14 Custom-house Place, Chicago, shows a line of modern high-grade bicycles of merit. Present riders, thinking of changing their mounts, or prospective wheelmen, should investigate the Shirk wheels. They have several features of importance to be found in no other makes, and their construction throughout, and the material used, is of the best obtainable. Catalogue on application.

**Odorless Refrigerator.** Housekeepers are beginning to realize the utmost importance in household economies of the food supply. To keep food fresh and uncontaminated is the object of the use of the many household refrigerators now on the market. One of the best of these is the "Odorless," manufactured by the Keyser Manufacturing Co., of Chattanooga, Tenn., and accurately described in an illustrated pamphlet now being issued. Copy on application.

**Metal Fronts.** The originator and patentee of the rock-faced sheet-metal covering, the St. Paul Roofing, Cornice & Ornament Co., of St. Paul, Minn., feels warranted in claiming the highest degree of skill and perfection in applying these materials to practical use. In a catalogue just issued the company presents evidences of the advantages of the uses of the metal as it uses it, and endeavors to establish the fact that with it the construction of handsome and desirable fronts for wood and brick buildings, and the practical fireproofing of wood buildings, is accomplished at a low cost. A full line of zinc and copper ornaments and enrichments is also produced by this company. Send for literature.

### To Develop Ochre Beds in Virginia

The entire control of extensive ochre beds located in Loudoun county, Virginia, has been secured by Messrs. Talmadge & Wilson, of 1423 F street N. W., Washington, D. C., and 120 East Baltimore street, Baltimore, Md. The firm has commenced operations at the beds preparatory to a thorough development of the property, and large shipments of the raw material will be made to manufacturers of refined ochres. It is claimed that this Loudoun county ochre has been pronounced by experts to be of exceptionally fine quality, comparing very favorably with the higher grades of the imported article, being free of sand and grit, of excellent color and mixing freely with the vehicle.

## FINANCIAL NEWS.

The Manufacturers' Record invites information about Southern financial matters, items of news about new institutions, dividends declared, securities to be issued, openings for new banks, and general discussions of financial subjects bearing upon Southern matters.

### An Important Financial Move in Richmond.

A few weeks ago the Manufacturers' Record announced that the Richmond Trust & Safe Deposit Co., of Richmond, Va., was being organized by a number of leading business men in that city and elsewhere. Books of subscription to the capital stock, which for the present is limited to \$200,000, were opened at the banking-house of John L. Williams & Sons at noon on February 23. By the following morning applications had been received for more than \$500,000 of stock, necessitating a pro rata allotment to the subscribers of 60 per cent. of the amount for which they had subscribed. A circular letter issued by Messrs. John L. Williams & Sons in regard to this trust company states that it has been organized to act as the fiscal agent for State, municipal and other corporations, and also to act as the transfer agent and the registrar of bonds and stocks of corporations of all kinds. It will do the usual trust company business.

The development of trust companies as one of the features of the financial history of the United States during the last few years has been somewhat remarkable, and it is gratifying to note that the South is entering this field in order to increase its own financial resources and to handle some of the great financial business that has been constantly flowing from that section to the trust companies of Eastern cities. As the South is developing its industrial interests, so must it develop its financial institutions and strengthen them, that it may be more and more independent in financial operations. The progress of this section in business affairs and in the accumulation of wealth makes timely the organization of large financial institutions capable of handling operations that have heretofore gone elsewhere. Just as the South has for so many years depended upon the North and West for much of its manufactured goods, so it has to a considerable extent depended upon the North, not simply for money, but for the mechanism for handling operations which would help to keep in the South the business of financing many municipal and industrial undertakings.

Among the people interested in this new Richmond trust company are Mr. John Skelton Williams, of John L. Williams & Sons, bankers, Richmond; Mr. Robert C. Davidson, president of the Baltimore Trust & Guarantee Co.; Maj. Jas. H. Dooley, capitalist, Richmond; Mr. J. William Middendorf, of Middendorf, Oliver & Co., bankers and brokers, Baltimore; Mr. William F. Cochran, capitalist, Yonkers, N. Y.; Mr. C. Sidney Shepard, of New York, and other Northern and Southern business men.

### Virginia Bankers' Association.

At the annual meeting of the Virginia Bankers' Association, held at Richmond, the action of the Indianapolis conference on currency reform was endorsed. The following officers were elected for the next year: President, W. M. Hill, of Richmond; vice-presidents, Mann S. Quarles, S. G. Wallace, Richmond; E. P. Miller, Lynchburg; J. H. Toomer, Portsmouth; W. H. Doyle, Norfolk; J. A. Willett, Newport News; J. J. Lawson, South Boston; C. D. Fishburne, Charlottesville;

Turner McDowell, Fincastle, and secretary and treasurer, H. A. Williams, Richmond.

### New Corporations.

B. G. Stevens, of Denton, Md., and others are considering the formation of another bank in that town.

Miles White, Jr., E. Stanley Gary and others have organized the Real Estate & Trust Co., to do business in Baltimore, with a capital of \$200,000.

L. B. Smith, C. C. Hemming, of Gainesville, Texas, and others have decided to organize a new bank at Durant, Indian Territory. It is to be called the First National Bank.

The Wilmington Investment Co. has been organized at Wilmington, N. C., with the following officers: President, B. H. Marshall; vice-president, R. H. Cowan; treasurer, P. Quince Moore; secretary, John G. Marshall.

### New Securities.

R. E. Walsh, J. B. Vinet and others have formed the American Bond & Savings Co., at New Orleans with \$100,000 capital.

The city of Terrell, Texas, will probably issue \$12,000 worth of 6 per cent. bonds for improvements. M. C. Roberts, mayor, may be addressed.

The city of Hagerstown, Md., will probably issue \$60,000 worth of bonds for an electric-light plant. The mayor will give further information.

It is announced that the balance of the issue of \$100,000 in 3½ per cent. bonds of Augusta, Ga., amounting to \$42,000, has been sold to J. J. Cohen, of the same city.

Mountain Dale Lodge of Odd Fellows, at Roanoke, Va., is considering an issue of \$5000 worth of bonds to construct a new building. The secretary will give further information.

The board of supervisors of Alexandria, Va., will receive bids until March 31 for the proposed issue of \$20,000 in 6 per cent. bonds. H. H. Young, county clerk, may be addressed.

The city council of Bay St. Louis, Miss., will consider the proposed issue of \$40,000 in bonds at its first meeting in March. Richard Mendes, city auditor, will give further information.

It is reported that the town of Ocean City, Md., may issue \$25,000 worth of 6 per cent. bonds for improvements. Hon. G. W. Upshur, mayor, may be addressed at his office in the Equitable Building, Baltimore.

The Bank of Abbeville, La., has increased its capital to \$45,000. This bank began operations three years ago with \$15,000 capital and has been obliged to enlarge its facilities by reason of the business demands.

The commissioners of Somerset county, Maryland, are arranging to sell \$10,000 worth of 4 per cent. bonds for refunding purposes, if permission is obtained from the legislature. Charles W. Tong, at Princess Anne, will give further information.

The Charleston & Seashore Railroad Co., of Charleston, N. C., it is reported, is selling bonds to build an electric line from Charleston to a summer resort in the suburbs. It is understood that \$400,000 worth will be disposed of, and that \$100,000 worth have been placed. J. S. Lawrence and Philip H. Gadsden, of Charleston, are directors of the company.

### Dividends and Interest.

The Virginia-Carolina Chemical Co., of Richmond, Va., has declared a dividend of 1 per cent. for the last quarter.

The Laurel Woolen Manufacturing Co., of Roswell, Ga., has declared a semi-

annual dividend of 8 per cent. According to the company's report, it earned 21 per cent. on its capital during the year.

Interest on 6 per cent. bonds of the Baltimore Traction Co. will be paid by Hambleton & Co., and on 5 per cent. bonds of the Lake Roland Electric Co. by Alexander Brown & Sons, of Baltimore.

The following bonds and coupons due March 1 are payable by the Mercantile Trust & Deposit Co. of Baltimore: An-niston Gas & Light Co. first 6s, Seaboard & Roanoke and Raleigh & Augusta 5s, Monongahela River Railroad Car Trust 6s, town of Winston (N. C.) 5s and Campbell county (Virginia) refunding 4½s.

### Financial Notes.

O. K. Jelks has been appointed cashier of the Bank of Quitman, Ga.

The highest price yet recorded for 3½ per cent. stock of the city of Baltimore is 108. The sale of \$75,000 worth was recently made at this figure.

The Delta Bank of Greenwood, Miss., has elected George A. Wilson, of Lexington, Miss., as president; A. F. Gardner, vice-president, and J. F. Bew, cashier.

The Baltimore Manufacturers' Record is constantly laboring to bring capital and manufacturing industries to the South, and now, while the New England mills are closing down, the Manufacturers' Record proposes to take advantage of the opportunity to attract their attention to the advantages offered by the South for the manufacture of cotton goods, and the Manufacturers' Record will be sent regularly during the next three months to every cotton-mill company in New England and the Middle States. While the Manufacturers' Record is to be sent to all these manufacturers, would it not be a good idea for the Commercial Club of An-niston to arrange and have the advantages of An-niston as a manufacturing point set forth in the Manufacturers' Record? Inevitably many of the great cotton-mill concerns of New England must seek locations in the Cotton States, and no place can offer more advantages for their location than can An-niston.—An-niston (Ala.) Hot Blast.

## To Manufacturers.

As export agents of a large number of Southern cotton mills, we have extensive connections all through Santo Domingo, English West Indies, Central and South America, as well as Australia, Africa and Europe. Many of our customers take an interest in other American products, and it is therefore our intention to secure the representation of some of the most important manufacturers in such lines, with the understanding to represent only one in each line. For the purpose of extending our foreign business we have a staff of travellers and resident agents in the different countries, and we pay the manufacturers for all orders secured by them, carrying the accounts of the buyers, to whom, in many instances, long credits have to be granted. Our travellers and resident agents have a full line of samples of the goods we now handle. We only accept accounts where we are the sole agents.

If you are interested in the export business, we would be pleased to quote you our terms and conditions and give you satisfactory references.

### Resident Agents in

LONDON. RIO JANEIRO. MONTEVIDEO.  
HAMBURG. SAO PAULO. PUERTO RICO.  
COPENHAGEN. BAHIA. BOGOTA.  
STOCKHOLM. BUENOS AYRES.

### FRANK, HALBERSTADT & CO.

#### Export Merchants,

Sole Export Agents of Cone Export & Commission Co.  
66 Broad Street, NEW YORK.

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## FLORIDA.

Last Tour of the Season via Penn-  
sylvania Railroad.

The last of the popular Pennsylvania Railroad personally-conducted tours to Jacksonville will leave New York and Philadelphia by special train of Pullman palace cars on Tuesday, March 8.

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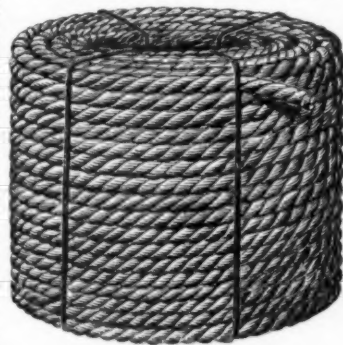
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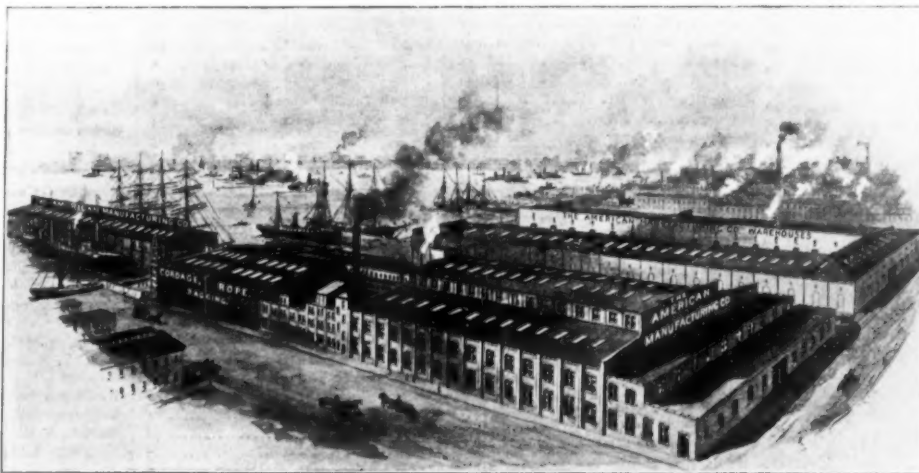
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Ads. marked thus \* appear every other week.  
Ads. marked thus † appear in first issue of each month.  
Ads. marked thus ‡ not in this issue.

## PROPOSALS.

**TREASURY DEPARTMENT**, Office Supervising Architect, Washington, D. C., February 24, 1898.—Sealed proposals will be received at this office until 2 o'clock P. M. on the 1st day of April, 1898, and opened immediately thereafter, for all the labor and materials required for the foundation, superstructure, roof covering and approaches of the U. S. Custom House building at Portland, Oregon, in accordance with the drawings and specification, copies of which may be had at this office or the office of the Superintendent at Portland, Oregon. **JAMES KNOX TAYLOR**, Supervising Architect.

**PROPOSALS FOR FURNISHING STAMPED ENVELOPES AND NEWSPAPER WRAPPERS.**

**POST OFFICE DEPARTMENT**, WASHINGTON, D. C., Feb. 23, 1898. **SEALED PROPOSALS** are invited, and will be received at this Department until 12 M. on Wednesday, the 30th of March, 1898, for furnishing stamped envelopes and newspaper wrappers in such quantities as may be called for by the Department during a period of four years, beginning on the first day of October, 1898. Proposals must be made on the blank forms provided by the Department, securely enveloped and sealed, indorsed "Proposals for furnishing stamped envelopes and newspaper wrappers," and addressed to the Third Assistant Postmaster General, Washington, D. C. Bids delivered in person must be handed in at or before the hour above specified for the receipt thereof; otherwise they will not be considered.

Blank forms of proposal, with full specifications and samples of the envelopes and wrappers, will be furnished upon application to the Third Assistant Postmaster General.

**JAMES A. GARY**,  
Postmaster General.

**PROPOSAL FOR FURNISHING ADHESIVE POSTAGE STAMPS.**

**POST OFFICE DEPARTMENT**, WASHINGTON, D. C., Feb. 23, 1898. **SEALED PROPOSALS** are invited from parties carrying on the business of steel-plate engraving and plate printing, or who have had experience in conducting that business, and will be received at this Department until 10 o'clock A. M., on Wednesday, the 30th of March, 1898, for furnishing adhesive postage stamps of the following-named classes, in such quantities as may be called for by the Department during a period of four years, beginning on the first day of July, 1898, viz:

Ordinary postage stamps for the use of the public.  
Newspaper and periodical stamps.  
Postage-due stamps.  
Special delivery stamps.

Proposals must be made on the blank forms provided by the Department, securely enveloped and sealed, indorsed "Proposals for furnishing adhesive postage stamps," and addressed to the Third Assistant Postmaster General, Washington, D. C. Bids delivered in person must be handed in at or before the hour above specified for the receipt thereof; otherwise they will not be considered.

Blank forms of proposal, with full specifications, will be furnished upon application to the Third Assistant Postmaster General.

**JAMES A. GARY**,  
Postmaster General.

**Bids Wanted on 20,000 to 30,000 Tons Steam Coal.**

2240 lbs. to ton, free on board Baltimore. Give analysis and also name of coal and mine from which taken or supplied. Address immediately

**U. S. C. T.**,  
Care Manufacturers' Record.

## SEALED PROPOSALS.

**\$140,000 Sewer, Jail and City Bonds.**

Sealed proposals will be received by the Common Council of Newport News, Va., until 12 noon, March 8, for the purchase of \$140,000 4½ per cent. Sewer, School and Jail Bonds.

Interest payable semi-annually at the Treasurer's office in the city of Newport News or The Bank of New York, N. B. A., New York City. Principal payable in 30 years, optional after 20 years. Denomination \$500. Dated April 1, 1898. Address all bids to City Clerk, marked Bids for City Bonds. Council reserves the right to reject any or all bids.

**J. A. MASSIE**, City Clerk.

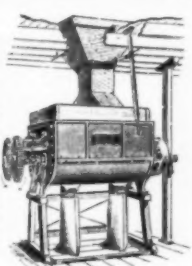
**The Boomer & Boschert KNUCKLE JOINT PRESS**



For Baling Cloth, Paper, Yarn, &c.  
Or for any other purpose requiring great pressure.

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**IRON AND STEEL PLATES,**  
Manufactured Shapes, Forgings, Etc.

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Is showing great Commercial Development.

**For Sale—Residences, Building Lots, Farms, Manufacturing and Hotel Sites.**

An ideal city for a HOME. Full of historic interest. Cost of living is cheap and climate delightful. Educational facilities are unsurpassed.

Garden produce of farms near Charleston is shipped to Northern and Eastern markets at good profits.

**Exchange Banking & Trust Company,**  
**CHARLESTON, S. C.**

It costs only  
15 Cents a  
year to own one.

THE BEST ON EARTH.  
Patented January 5, 1897;  
others applied for.

**THE HARTZELL**

Self Draining Hose Reel.

It will last twenty years and  
it sells at

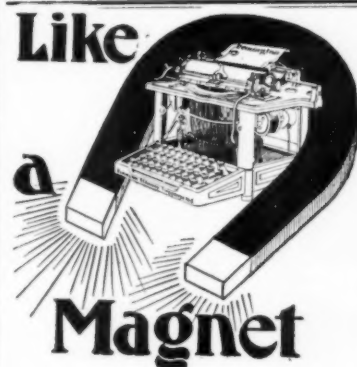
**\$2.50**

AND  
**\$3.00**

EACH.

It is rigidly, scientifically and mechanically constructed. It drains out all the water. It keeps the hose in good order. The hose is not kinked, twisted, crushed or drawn to a tension as it is easily unreeled. It sells at sight. For catalogue and lists address

**The Hartzell Novelty Works, Alliance, O., U. S. A.**



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**The Remington**

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draw old friends closer and attract new ones, by the power of inherent merit and unflinching service.

**WYCKOFF, SEAMANS & BENEDICT**  
327 Broadway, New York

**The New England Railroad.**

The Most Convenient Train for Business Men traveling between

**Boston and New York**

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**"Air Line Limited."**

This Elegantly Equipped Train leaves Boston from Park Square Station, 1.00 P. M., Week-days only, and is due Grand Central Station, 6.00 P. M.

Parlor Cars and Coaches are attached and Buffet Lunch served in either. There is no extra charge for seats in Coaches.

Same Service from New York.

City Ticket Office, 3 Old State House, Boston,  
**W. R. BABCOCK**, Gen'l Pass'r Agent.



**ASPHALT PAVEMENTS**

Enhance the Value of Property One-Third.

**DURABLE HEALTHFUL NOISELESS**

20,000,000 square yards laid in eighteen years.

For plans and estimates apply to

**THE BARBER ASPHALT PAVING COMPANY,**  
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**The Nibble of a Mouse** will eventually consume the biggest cheese, and the loss of nickels, dimes and dollars will finally deplete the fattest purse. We sell 10,000 XX-6½ good quality Envelopes for \$10.00. That is where we save you nickels, dimes and dollars. Freight paid to your city when money accompanies the order.

**ATLANTA ENVELOPE CO., Atlanta, Ga.**

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For Descriptive Pamphlet apply to

**N. S. SHALER**, Dean.

**M. CHAMBERLAIN**, Secretary,  
Cambridge, Mass.

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SEND FOR  
CATALOGUE.

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MANUFACTURERS OF

**Valves and Fire Hydrants,**

**DOUBLE AND SINGLE GATE VALVES,**

½-inch to 60-inch,

**FOR LIGHT AND HEAVY PRESSURE,**

ALSO

**Vertical and Horizontal Check Valves,**

**Foot Valves, Air Valves, and Yard and Wash Hydrants.**



**Results Assured**

BY THE USE OF

**Fire-Felt Non-Conducting Coverings.**

Asbestos formed into felt and replete with cellular tissues creates Fire-Felt. More confined air spaces in Fire-Felt than any other covering on the market.

**ABSOLUTELY FIRE-PROOF. NOT AFFECTED BY MOISTURE. EASILY APPLIED.**

Sheets for Boilers, Flues, etc., and Cylindrical Sections for Pipes.

**H. W. JOHNS MANUFACTURING CO**

100 WILLIAM STREET, NEW YORK.

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Flue covered with 1½ in sheet Fire-Felt, Hexagonal Wire Cloth and Cement Felting.

**To Secure SOUTHERN TRADE**

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**BEST WORK~PROMPT DELIVERY~FAIR PRICES~**

**THE BALTIMORE ENGRAVING CO.**  
**BALTIMORE, MD. U. S. A.**



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OPPORTUNITIES FOR INVESTORS.

# The Columbia Water Power Co.

COLUMBIA, S. C.

Has Developed 10,000 Electric H.-P.,  
Which They Offer For Sale in Large or  
Small Units for Manufacturing Purposes.

The Largest Electrical Horse-Power developed in the country outside of Niagara Falls. Ample power at all seasons of the year. Free from ice in winter. More economical than steam.

= = COLUMBIA = =

Has a population of 25,000. It has educational advantages equal to any city in the country. The climate is equable and agreeable. Taxes are low and building material cheap.

Skilled Labor and Freedom from Labor Organization Interference.

Seven Railroad Systems Enter Columbia, Insuring  
Low Freight Rates to All Points.

THE CENTRE OF THE COTTON PRODUCING COUNTRY.

Address Boston Office, 53 State Street, Room 608,

GEO. WALLACE, Gen'l Mgr.

BOSTON, MASS.

WM. C. HAWKINS, Managing Engineer, Columbia, S. C.

## Knitting Mills for the South.

MR. W. G. MAXWELL, of the Wool Exchange Building, New York, one of the founders of Roanoke Rapids, N. C., and organizer of the first knitting mill company there, is prepared to introduce this industry at any favorable point in the South with the utmost speed and perfection.

The knitting mill at Roanoke Rapids has been a wonderful success, and is now running night and day.

The South is beginning to feel the competition of her own cotton mills, but the knitting industry has there a comparatively free field, and this is the time to enter it with certainty of large profits.

Mr. Maxwell will be pleased to correspond with individuals, corporations or municipal bodies upon the subject.

### A Good Chance for a Cotton Factory.

30 acres with ample buildings, one 100-horsepower steam engine and boiler. The above property is all new and is known as the Shreveport Fair Grounds. Address  
E. M. SMITH, Shreveport, La.

There is a good opening for a Compress and Warehouse, "built under requirements of insurance companies" at Natchez, Miss. Gross receipts of cotton to date 100,000 bales, net 79,000.

It is estimated a new railroad now contemplated will increase receipts 20,000 bales.

For further information address NATCHEZ, care Manufacturers' Record.

### RADFORD, Virginia.

Parties desiring to start new enterprises or change location are invited to investigate Radford, Va. Good climate, water and drainage, elevation, 1800 feet. On Norfolk & Western Ry. at junction of Columbus, O., and Pocahontas Coal Fields divisions, as well as Southern connection via Knoxville, Tenn. In midst of fine agricultural country and 25 miles from ore fields. Population, 4000, churches, public and private schools, electric light and car line. Ice plant and other manufactures.

Responsible parties are offered inducements, including no city taxes for five years. Address

G. T. KEARSLEY,  
Secretary Board of Trade,  
RADFORD, VA.

### VALUABLE COTTON MILL FOR SALE.

The undersigned offers for sale the ROSALIE MILLS COMPANY'S PROPERTY at Natchez, Miss., including buildings, tenements and machinery. Production 3000 pounds per day. Machinery of latest design and in first-class order.

Address for particulars and terms

W. H. SHIELDS,  
Natchez, Miss.

### Horse Power for Sale or Lease.

Manufacturers who are contemplating removing their plant or establishing a branch factory are invited to investigate the superior advantages possessed by the

### Roanoke Navigation & Water Power Co.

The third largest power in the United States, situated at WELDON, N. C., at the junction of the Seaboard Air Line and Atlantic Coast Line.

2000 HORSE POWER NOW READY for immediate use and capable of development to almost any extent, situated at the head of navigation of Roanoke River and junction of Atlantic Coast Line and Seaboard Air Line, INSURING FIRST-CLASS SHIPPING FACILITIES TO ALL PORTS AND LOW FREIGHT RATES. Absolutely free from interference by high water. Good manufacturing sites for various industries are available. 2,000,000 brick on hand and a yard sufficiently large to supply any demand. Weldon is in the centre of the RICHEST COTTON LAND IN THE SOUTH. 200,000 BALES COTTON BEING PRODUCED ANNUALLY.

This section is RICH in TIMBER and WOOD for manufacturing purposes, as well as for making acetate of lime of potash. Boats using 3½ feet water can go up the river from our power site for 30 miles, developing a valuable timber country that has not been penetrated.

FOR THE ESTABLISHMENT OF AN ICE FACTORY no better location can be found, having a territory of a radius of 50 miles, containing a population of 400,000.

LABOR IS INTELLIGENT, ABUNDANT and CHEAP. ALL DESIRABLE and NEEDED ADVANTAGES.

Our power can be bought or leased at reasonable rates. Will take pleasure in answering all requests for detailed information. Address

Roanoke Navigation & Water Power Co.

JAS. W. WILSON, Pres. & Gen. Mgr.

WELDON, N. C.

### COTTON MACHINERY FOR SALE.

Apply New York Office, 18 Walker Street.

Kitson Opener and Breaker Lapper, 36", 3 Beaters. Kitson Finishing Lapper, 36", 2 Beaters. Lord Finishing Lapper, 36", 2 Beaters.

23 Howard & Bullough Roller Cards, 36", with Coilers, Clothed.

34 Deliveries Howard & Bullough Drawing, 10" Coilers.

2 Howard & Bullough Slubbers, 10x5, 80 spindles each.

1 Saco Water-Power Slubber, 10x5, 60 spindles.

4 Howard & Bullough Intermediate Roving Frames, 9x4½, 100 spindles each.

3 Saco Water-Power Roving Frames, 7x3½, 144 spindles each.

1 Howard & Bullough Roving Frame, 7x3½, 160 spindles.

5 Howard & Bullough Roving Frames, 7x3½, 144 spindles each.

4 Parr Warp Mules, 1½ gauge, 700 spindles each.

4 Parr Warp Mules, 1½ gauge, 600 spindles each.

1 Arnold Spooler, 4" gauge, 80 spindles.

1 Payne Spooler, 4½ gauge, 80 spindles.

1 English Spooler, 4½ gauge, 368 spindles.

4 Howard & Bullough Warpers, 500 spools to creel each.

2 Howard & Bullough Slashers, 82" copper cylinders.

Watts Campbell Co. Horizontal Corliss Steam Engine, condensing; diam. of cylinder, 20"; stroke, 48"; diam. of belt wheel, 20 ft.; face, 24 inches.

Set Roll Covering Tools.

14"x7"x12" Knowles Duplex Pump.

Set Phillips Dry Cans, 1 cylinder 6½"x84", 5 cylinders 3½"x26", with water rolls.

4 Butterworth Drying Cylinders, 42"x23".

1 Fales & Jenks Dry Twister, 200 spindles.

1 8½" Luther Wood Stretcher; 2 Luther Brass Stretchers, 74"x13".

1 20" Risdon Water Wheel, 2½" Davis Regulator.

1 Cloth Doubler 1 Stott Silk Warper.

Oil Tanks, Vapor Pots, Steam Traps, &c.

1 48" and 1 60" Barney Fans.

4 Butterworth Drying Cylinders, 62"x23".

4 Granger Drying Cylinders, 108"x30".

ROBERT FRANKLIN ADAMS.

### VALUABLE WATER-POWER FOR SALE.

In the Piedmont section of North Carolina on the Southern Railway and the South Yadkin River. Full copy of engineers report sent on application.

FRANK C. HAIRSTON,  
Davie Co. Fork Church, N. C.

### FINE COTTON FACTORY SITE FOR SALE.

Situated on main line of railroad near a never-failing and abundant water supply; healthful locality; schools and churches of all denominations; convenient to banking institutions; no city taxes, but near enough to have all city advantages; can be purchased outright or value of site taken in mill stock; no better location can be found; price reasonable. Address

JULIAN M. BAKER, Tarboro, N. C.

FOR SALE.

### Complete New Hosiery Mill Machinery Outfit.

Capacity over 100 dozen a day. Has not been run two years. Cost \$14,000. Will sell for \$8000 cash. Apply to

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### ABERDEEN, MISS.,

is a prosperous, enterprising and growing town in the heart of one of the most fertile and productive sections of the United States. Its possibilities are wonderful and by proper effort and push it can be made a manufacturing and commercial centre. Aberdeen

### Wants a Cotton Factory.

Eastern Capital can find Capital in Aberdeen to help establish a big Cotton Mill in the centre of the Cotton Belt of Mississippi. Correspondence solicited. Write to

J. W. ECKFORD,  
Aberdeen, Miss.

### FOR SALE CHEAP.

#### MILL PROPERTY

CONSISTING OF

Planing Mill Machinery and Manufacturing Plant, Double Story Building covering 5 city lots, located in heart of city on two main railroad lines.

Building admirably equipped for wood manufacturing purposes, all being in perfect order and ready for operation. Abundance and low price of raw material, together with low freight rates to jobbing centers, makes this an unexcelled point for wood manufacturing plant. Detailed particulars furnished on request.

BROBSTON, FENDIG & CO.  
BRUNSWICK, GA.

FOR SALE.

### TWO ACRES OF LAND

with 5-room dwelling; mill and gin house, 30x70, two stories; 55 H. P. engine and boiler; two 36-in. Nurdyke mill under-runners, capacity 750 bus. good meal in 24 hours; four 60 saw gins and Thomas steam press, with all modern improvements, capacity 30 bales in 10 hours; side track at Georgia railroad depot.

Property originally cost \$7000. All in first class condition. Correspondence invited.

C. W. ENNIS,  
Milledgeville, Ga.

### RARE OPPORTUNITY.

FOR SALE.

An Up-to-Date Foundry & Machine Shop,  
AT ROME, GA.

Owing to the death of the owner, and the consequent necessity of winding up the estate for distribution, the J. A. George Foundry and Machine Works, of twenty years' standing, with an established and remunerative patronage, are offered for sale at a bargain. The business is now being run successfully by the administrator of the estate.

Address for price, terms and particulars.

SAM'L FUNKHOUSER, Administrator,  
ROME, GA.

WANTED.

### A PARTNER

in a well-established wagon manufacturing business, situated in a progressive Southern city of 20,000 inhabitants. \$5000 buys a half interest. Money is needed to increase the plant so as to take care of increasing business. For further information address W. P. H. care Manufacturers' Record.

For Sale to Close Out Business.

### 26,000 ACRES OF LAND,

From 4 to 16 miles from Summerville, S. C. a noted health resort, containing long and short leaf pine, oak, hickory, ash, cypress, etc. Contains excellent farming and pasture land, and is convertible into a game preserve. Also second-hand machinery in good order.

A. W. TAYLOR LAND & LUMBER CO.  
SUMMERVILLE, S. C.

FOR SALE.

7000 Acres of Yellow Pine Timber  
Lands, on the Georgia Coast.  
Address W. A. WILLCOX, Darien, Ga.

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We mine, manufacture, buy and sell all kinds of mineral paints, dry colors, minerals and clays. **ALPHA PAINT AND MINERAL CO.**, 338 Bourse Building, Philadelphia, Pa.

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Parties desirous of starting such plant will hear about good territory from

D. J. E., Manufacturers' Record.

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On March 15th, 1898, I will sell to the highest bidder for cash, on the premises in Louisville, N. C., the Louisville Electric Light Plant, consisting of one Direct Current 110 Volt Edison Type 250,16 c. p. Light Dynamo, with rheostat and all necessary equipments, poles, wires and franchises in said town. Plant in running order. W. H. RUFFIN, Trustee.

## FOR SALE.

## Up-to-date Wheel Factory

In one of the best Southern cities. 5 railroads. Capacity 150 sets of wheels per day. 10,000 finished spokes per day. Best of material right at door at cord-wood prices. Address

P. O. BOX L,  
Meridian, Miss.

## SPECIAL COMMISSIONERS' SALE

OF THE

## Norfolk and Ocean View Railroad

8½ Miles Norfolk to Ocean View;  
Standard Gauge; Electric Power;

## ITS PROPERTY AND FRANCHISES,

including the Ocean View Hotel Property.

Pursuant to a decree of the Circuit Court of the United States for the Eastern District of Virginia, we shall sell at PUBLIC AUCTION in front of the Custom-House, Norfolk, Virginia, on **Wednesday, the 23d Day of March, 1898, at 12 O'clock M.**, the above referred-to property. For further information apply to W. W. OLD, CALDWELL HARDY, Special Commissioners, NORFOLK, VA.

## TIMBER LAND.

**21,000 Acres** Virgin Forest in best timbered section of West Virginia. Experts measured off several one acre blocks on N., S., E. and W. portions of this tract, and then measured the timber thereon, using Scribner's Lumber and Log Book. Best acre measured 8,077 feet B. M., thinnest acre, 19,964 feet; general average, 39,771 feet per acre, divided as follows, viz: Hemlock, 19,016 feet; Spruce, 11,358 feet; Cherry, 2,778 feet; Maple, 2,077 feet; Birch, 1,212 feet; Sugar, 948 feet; Ash, 794 feet; Beech, 818 feet, and Cucumber, 270 feet. Total amount of merchantable timber on this tract (approximated)

**863,962,000 FEET.**

The Title is Guaranteed to be Absolutely Perfect. Price and terms very reasonable. Sworn statement of the experts and detailed information sent upon application to **THE SOUTHERN REAL ESTATE EXCHANGE**, Clarksburg, W. Va.

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## Mineral, Farming

AND

## Timber LANDS.

Can Supply following:

Asbestos Lands.	Antimony.
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Phosphates, Florida.	Pine Lands.
Pasturage Lands.	Poplar Lands.
Palmetto Lands.	Pyrites Lands.
Rice Lands.	Sugar Lands.
Sea Islands.	Shooting Lands.
Tin Mine.	Talc Deposits.
Truck Farms.	Timber Lands.
Tie Lands.	Tan Bark Lands.
White Pine Lands.	White Oak Lands.
Walnut Timber.	

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CHARLESTON, S. C.

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No Personal Liability. Non-Assessable Stock.

Plan mailed on application.

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Charleston, W. Va.]

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Agency and Commission Merchant.

Cash advanced to any amount on consignments. First-class American references.

AGENTS WANTED—To Sell the

## "Battle Ax" Hay Press.

Latest invention, Automatic, Ball Bearing, Compound Leverage, Self Contained. No gear wheels or springs. Full circle. Simple in construction, efficient in service. Write, prices, discounts.

**ALABAMA FOUNDRY & MACHINE WORKS,**  
NEW DECATUR, ALA.

## WANTED.

## Machinery to Manufacture

We have a thoroughly equipped Machine shop, Carpenter Shop and Foundry, and can do all classes of Machine Work very reasonable. Try us.

**SOUTHERN FOUNDRY & MACHINE WORKS,**  
FREDERICKSBURG, VA.

## WANTED.

To communicate with a party, capable of running any kind of wood-working machinery in connection with ginney and electric light plant, who has two thousand dollars or more to invest. Party to take charge of and operate the entire plant. A good opening for a competent man. For particulars address **W. K. NETTLES**, care The Magnolia Gin & Light Co., Magnolia, Miss.

## FOR SALE OR LEASE.

One Open-hearth Basic Steel Plant, with one 15-ton furnace and complete outfit for making soft steel slabs and ingots. Ample local market for increased product.

One Iron Foundry, fairly well equipped for making light and medium castings.

Both the above are well located at Birmingham, Ala. Will sell on good terms or lease at fair rental.

One "Farrell" Bankers Steel Burglar-Proof Safe, with Dexter time lock—size 72 in.x50 in.x32 in., with double outside doors and centre wall. Good as new.

Will sell cheap F. O. B. cars at Birmingham, Ala. Address

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BIRMINGHAM, ALA.

THE BRADSTREET  
Mercantile Agency

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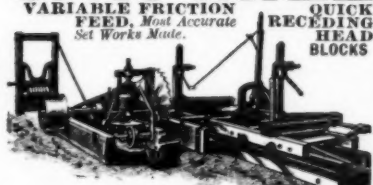
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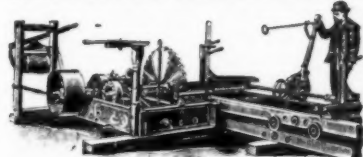
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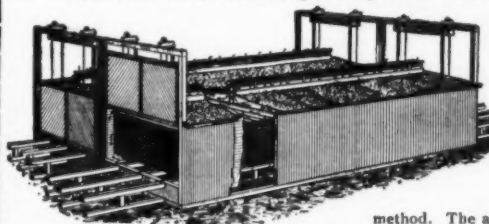


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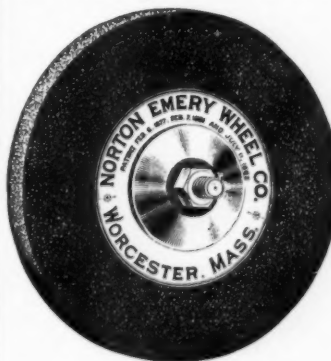
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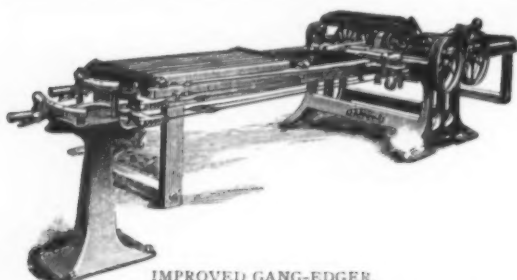
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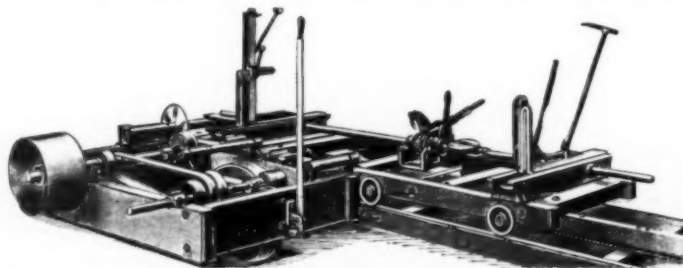
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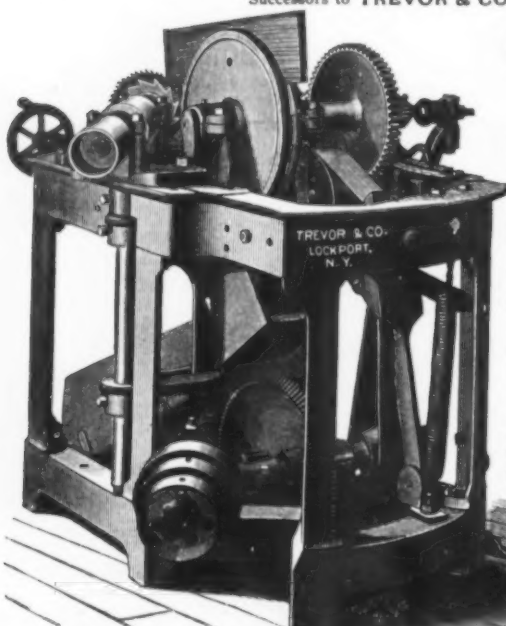
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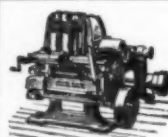


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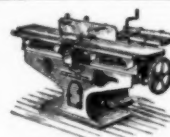
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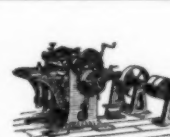
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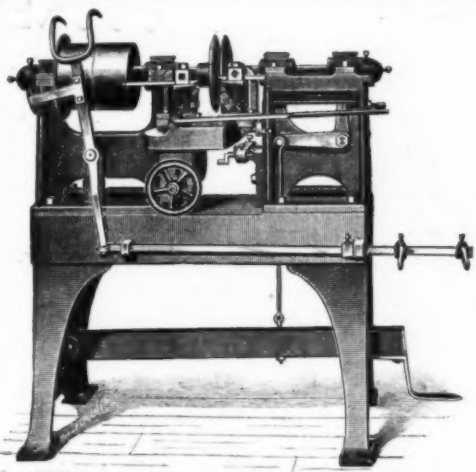
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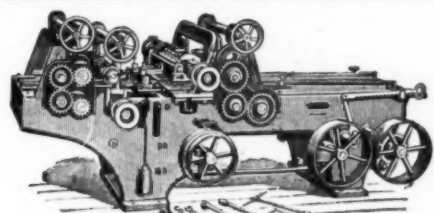


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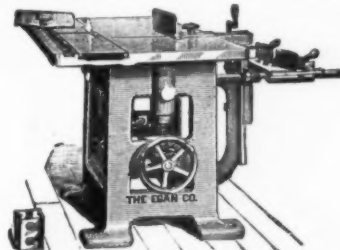
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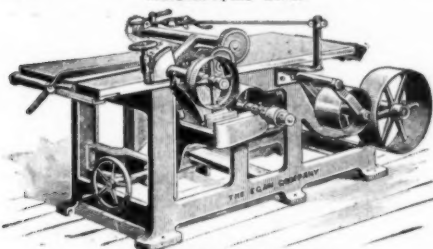
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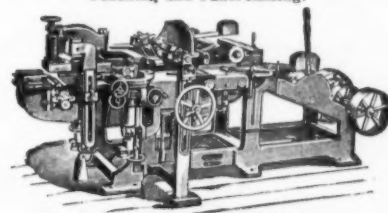
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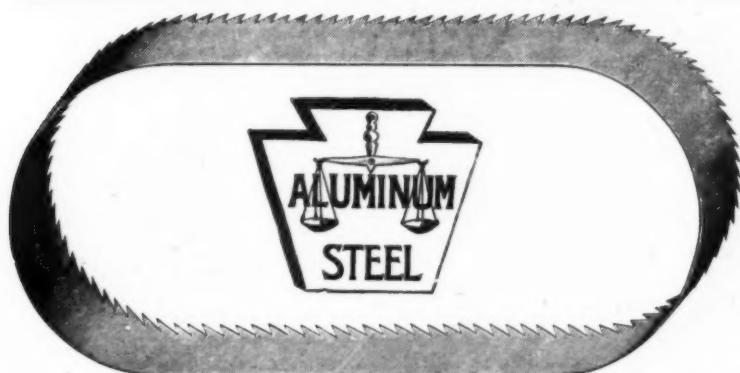
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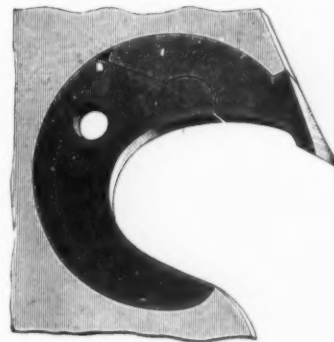
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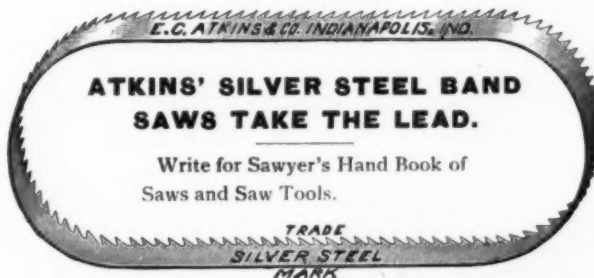
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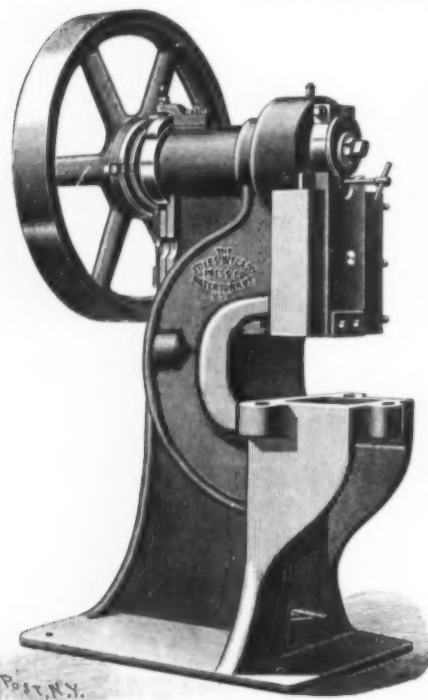
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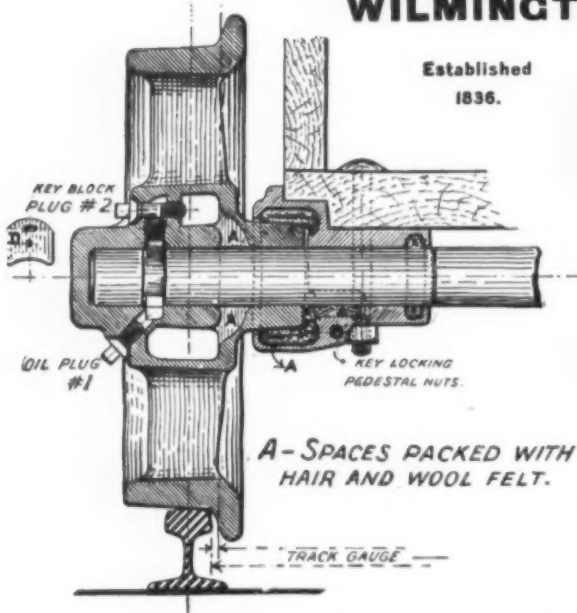
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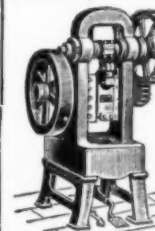
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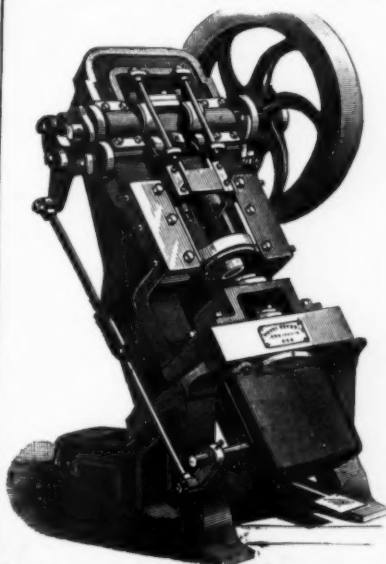
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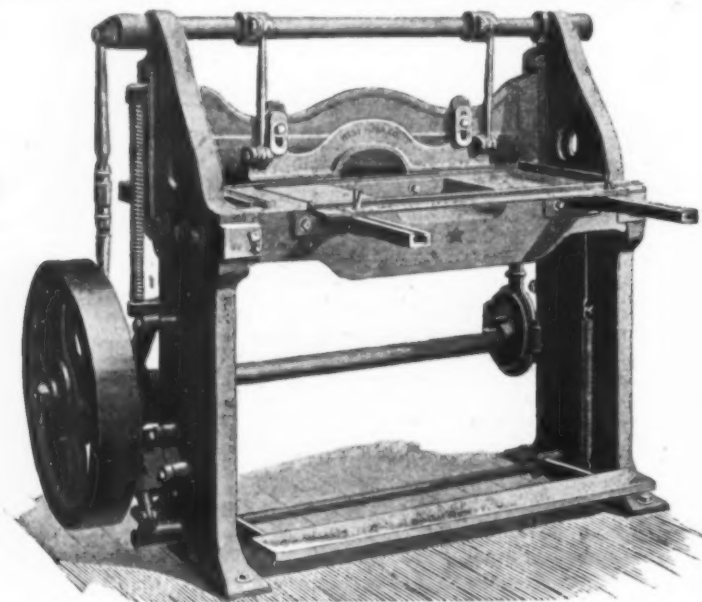


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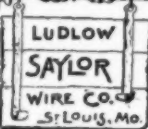
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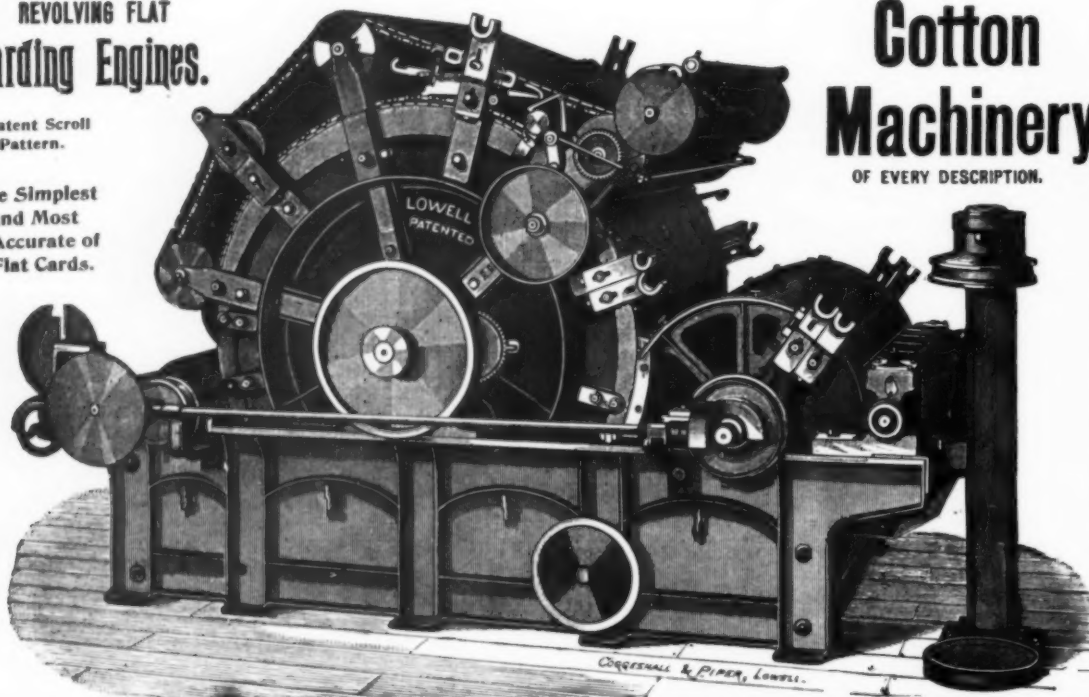


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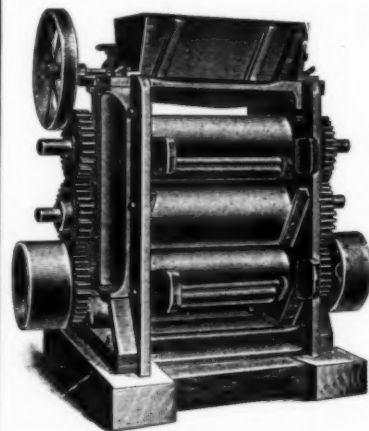
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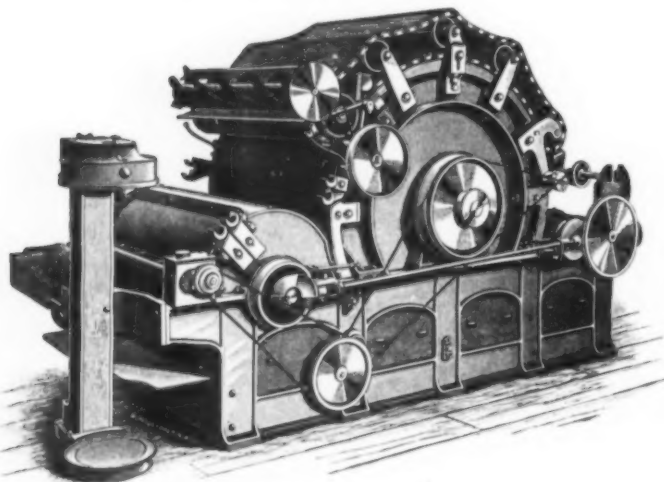
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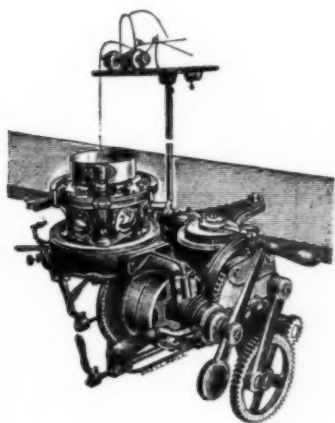
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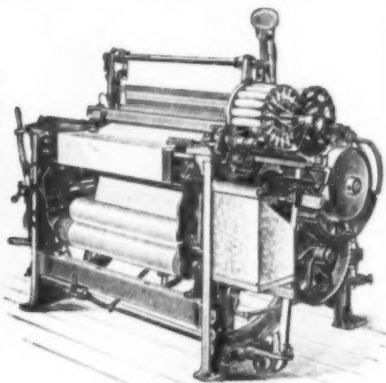
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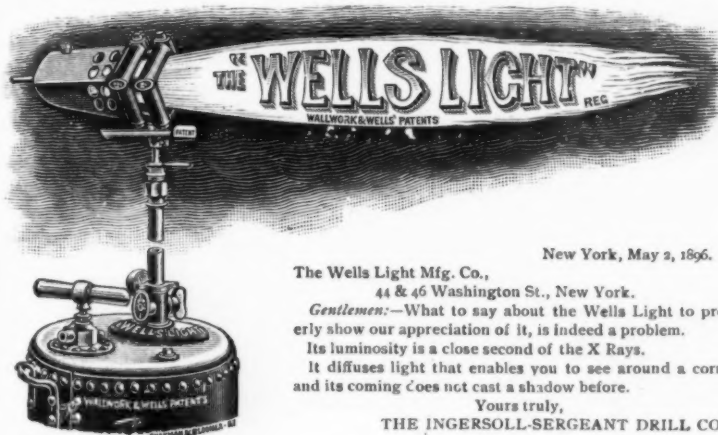
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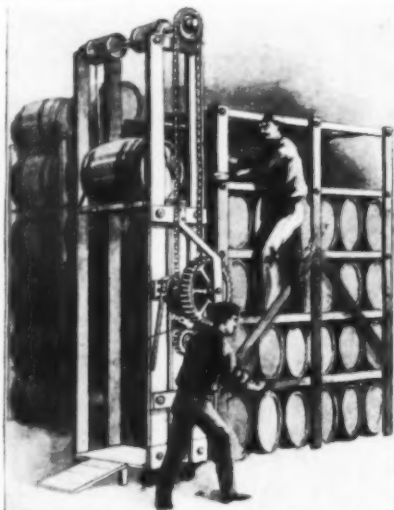
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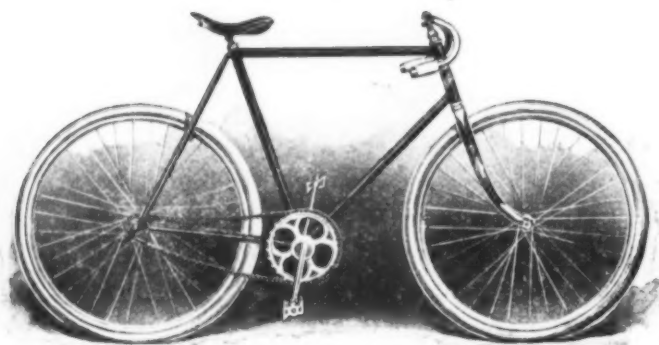
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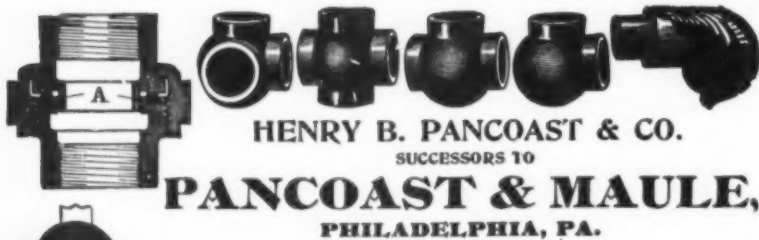
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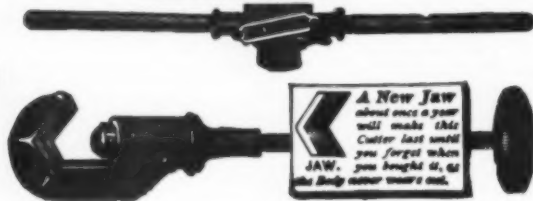
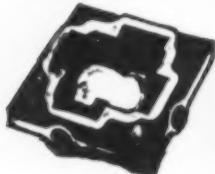
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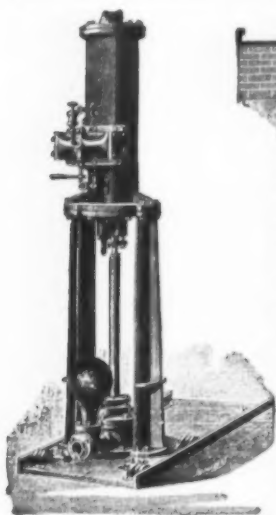
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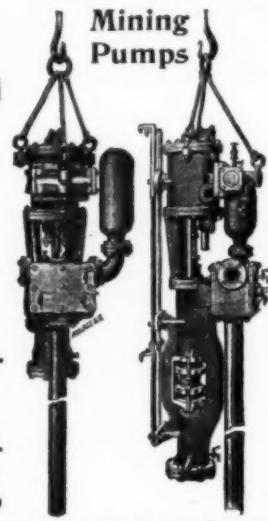
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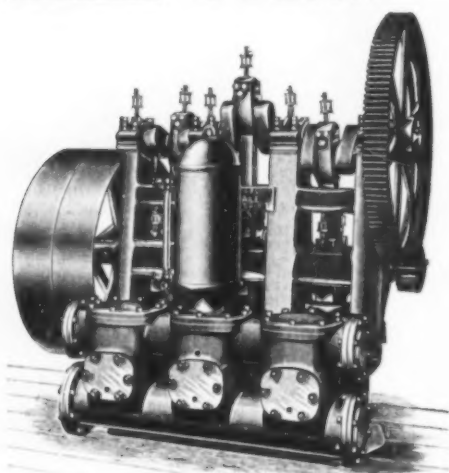
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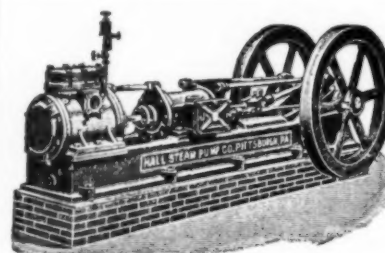
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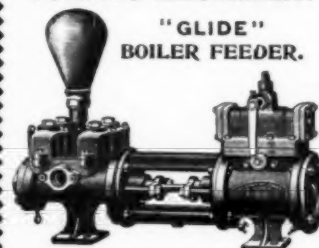
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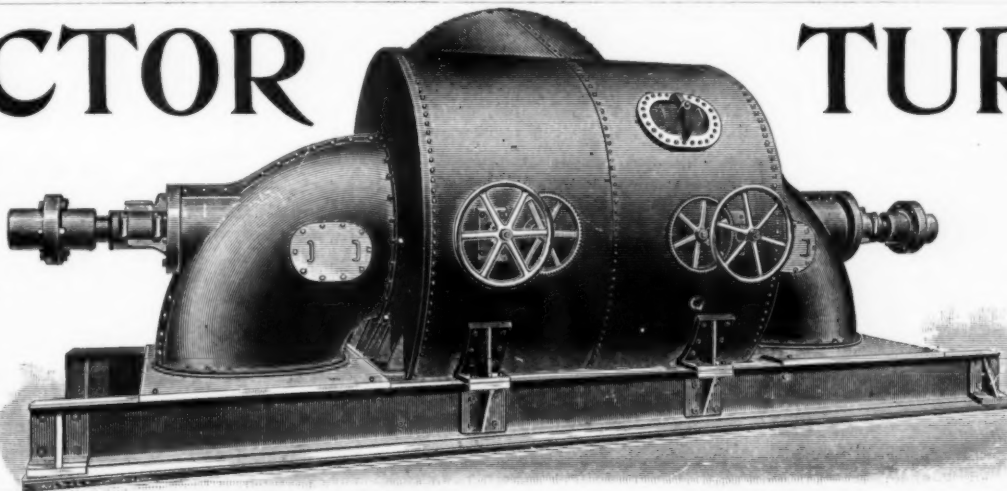
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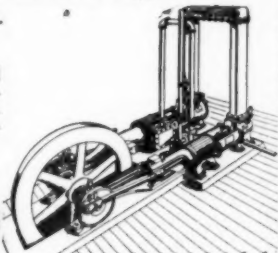
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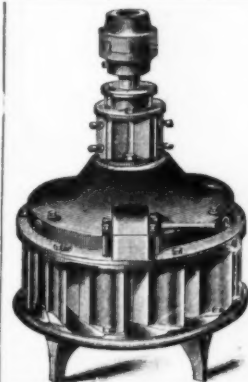
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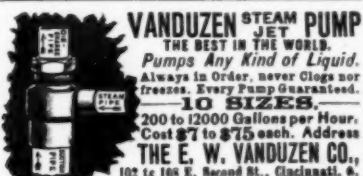
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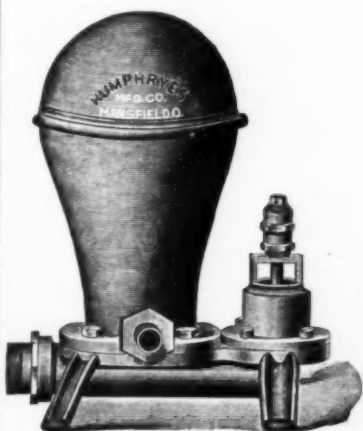


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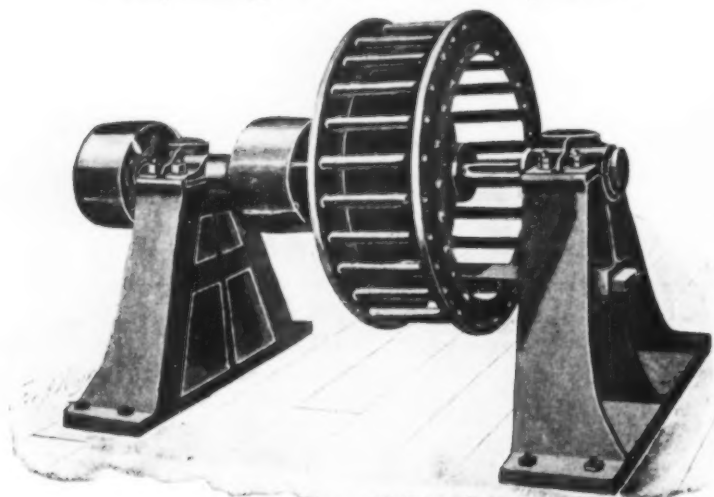
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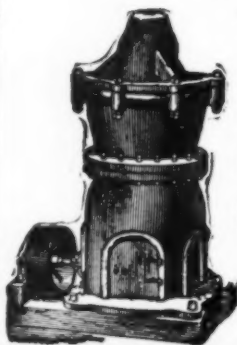
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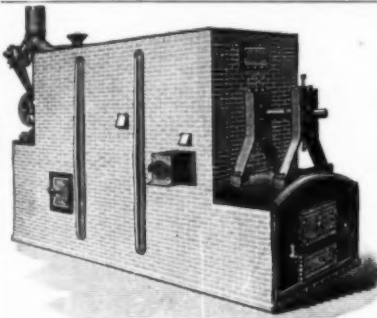
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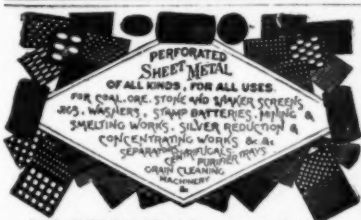
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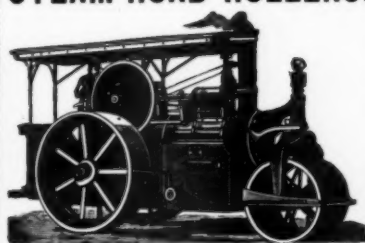
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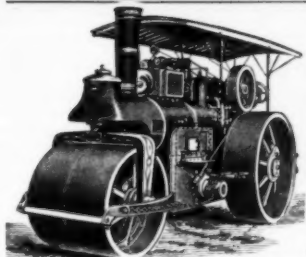
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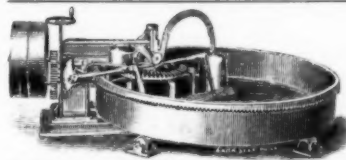
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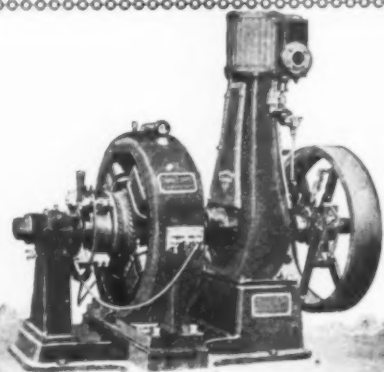
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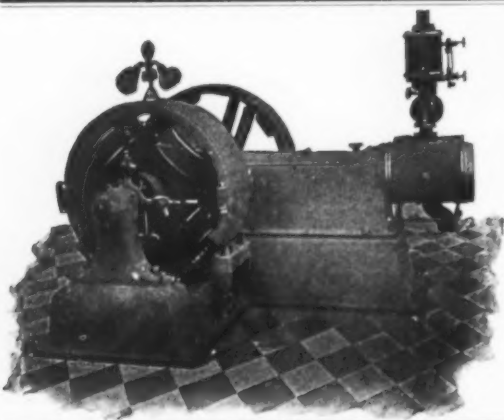


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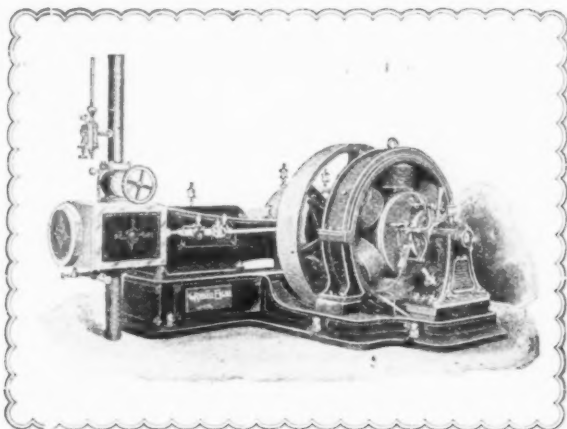
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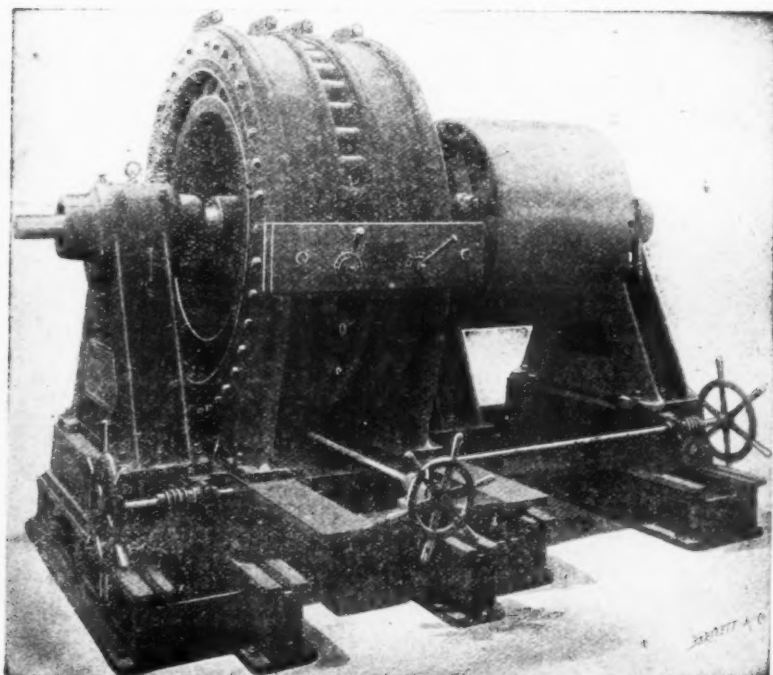
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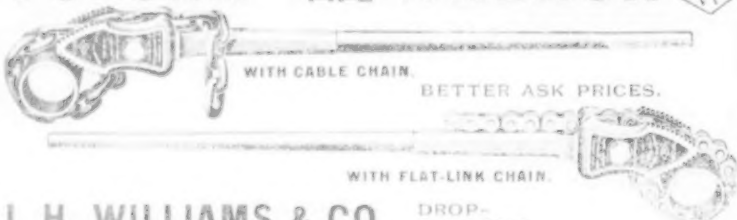
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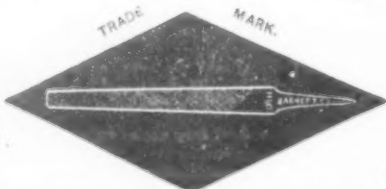
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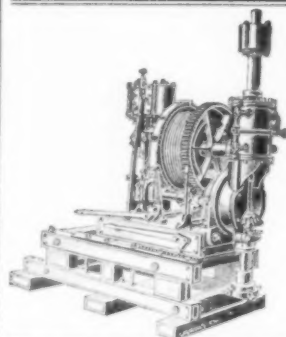
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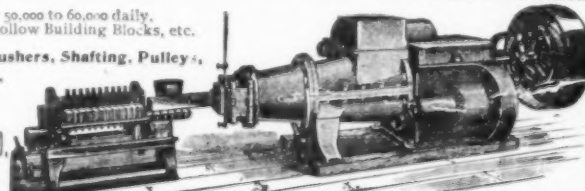
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